

October 27, 2020

Mr. Andrew Grenzer, Chief
Solid Waste Operations Division
Maryland Department of the Environment
1800 Washington Boulevard, Suite 605
Baltimore, MD 21230

RE: Fall 2020 Semi-Annual Report
Cross Road Trails Rubble Landfill
Discharge Permit No. 2016-GWD-2052

Dear Mr. Grenzer,

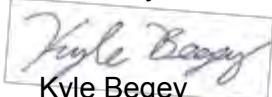
Arc Environmental has completed the second semi-annual monitoring event for calendar year 2020 at the Cross Road Trails Rubble Landfill in accordance with Discharge Permit No. 2016-GWD-2052. The enclosed monitoring report provides a brief description of the work completed and a summary of the results, including pertinent figures, tables, graphs, and appendices. We have included a hard copy report and a CD with electronic files, per your request.

In summary, the monitoring event included sampling of 13 groundwater monitoring wells and four surface water locations, with three quality assurance/quality control (QA/QC) samples (trip and field blanks). Samples were collected on September 15 and 16, 2020.

There were no first-time exceedances of maximum contaminant levels (MCLs) for groundwater or Toxic Substances Criteria for Ambient Surface Waters during this reporting period. For most monitoring wells, total iron and manganese exceeded applicable secondary (non-health) criteria. No volatile organic compounds (VOCs) were detected above MCLs in this sampling event.

If there are any questions or concerns, please feel free to contact us at 410-659-9971.

Sincerely,



Kyle Begey
Environmental Scientist



David M. Leety, P.G.
Director, Environmental Assessment & Remediation

Attachment

Fall 2020 Semi-Annual Groundwater Monitoring Report

cc: Mr. Brent Dilts, Brandywine Enterprises, Inc.
Mrs. Logan Cosgrove, Brandywine Enterprises, Inc. (e-copy only)

Fall 2020 Semi-Annual Groundwater Quality Report

Cross Road Trails Rubble Landfill Brandywine, Maryland

Operating Permit # 1996-WRF00515

Groundwater Discharge Permit # 2016-GWD-2052

Brandywine Enterprises, Inc.

Prepared by:

October 27, 2020



1311 Haubert Street
Baltimore, MD 21230
p 410.659.9971



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1.0 INTRODUCTION

Arc Environmental completed the fall 2020 semi-annual monitoring event at the Cross Road Trails Rubble Landfill (Permit #1996-WMF-0515) on September 15 and 16, 2020. Depth to groundwater and water samples were collected following the revised Groundwater and Surface Water Monitoring Plan dated December 9, 2014.

The following report documents the monitoring activities and includes the results of the groundwater and surface water samples collected in accordance with Part I Section B.2 of the facility's Discharge Permit (2016-GWD-2052). In addition, Quality Assurance/Quality Control trip blanks (one per day) and one field blank from the sampling pump were obtained.

2.0 SITE LOCATION

The site is located at the intersection of Cross Road Trail and Lange Farm Lane in Prince George's County, Maryland (Figure 1, Tab 1). The facility, which encompasses approximately 180 acres, is bordered by Cross Road Trail to the north, Lange Farm Road to the west, and Mataponi Creek to the southeast.

The property is entirely within the Southern Maryland portion of the Atlantic Coastal Plain physiographic province and is underlain by unconsolidated upland sediments (silt, sand, and gravel). Streamflow is generally to the east in this area into Mataponi Creek, although on-site runoff is to the southeast.

3.0 BACKGROUND

The Cross Road Trails Rubble Landfill facility began operations as an unlined rubble landfill in 1982 and is owned and maintained by Brandywine Enterprises, Inc. The site was mined for sand and gravel prior to land filling. The permitted waste disposal limit of the facility covers approximately 109 acres. The facility has not accepted any waste since 2001. Waste fill types included construction debris, rubble, wood, wall board, and other similar inert materials (SCS Engineers, December 2008).

Groundwater and surface water at the facility has been monitored since 1988 and continues to be a requirement of the State of Maryland Discharge Permit.

4.0 SAMPLING LOCATIONS

Since August 1988, samples of water from monitoring wells, streams, and other locations at the facility have been collected, laboratory-analyzed, and reported to MDE. The current monitoring network includes the collection of groundwater samples from 13 monitoring wells located around the perimeter of the landfill and collection of four surface water samples from Mataponi Creek and two unnamed tributaries. The groundwater and surface water sampling locations and direction of stream flow are shown on Figure 2 (Tab 1).



5.0 STATIC WATER LEVEL MEASUREMENTS

The water levels in each monitoring well were measured on September 15 and 16, 2020, prior to purging and sampling. The September 2020 water level and groundwater elevation data is provided in Table 1 (Tab 2) along with a summary of the historical data since monitoring began in 1988. A groundwater elevation contour map (Figure 3, Tab 1) depicts the groundwater flow direction based on the most recent water level data. As shown, groundwater is flowing in a southerly direction toward the unnamed tributaries of Mataponi Creek.

6.0 SAMPLING PROCEDURES

Dedicated polyethylene tubing was used during sampling of each monitoring well to minimize the potential for cross-contamination between sampling points. The low flow method of evacuation was used to purge the monitoring wells with the use of a 12-volt low-flow pump. Purging continued until measurements of the indicator parameters met the stabilization criteria (pH: ± 0.1 standard units, temperature: 10 percent, conductivity: 3 percent) or for a maximum of one hour. Once stabilized, the sample was collected in laboratory provided pre-preserved bottle-ware. A copy of the field notes for the sampling event is attached in Tab 4

Arc Environmental monitors four surface water sample locations which are identified in Figure 2.

- Stream-3: This surface water sample location is located mid-stream (Mataponi Creek) and is downstream of Stream-8 and upstream of Stream-7.
- Stream-4: This surface water sample location is upgradient from the property and is representative of surface water quality prior to reaching the Cross Trails Landfill property.
- Stream-7: This surface water sample location is downgradient from a surface water pond located on the eastern portion of the property and flows into Mataponi Creek.
- Stream-8: This surface water sample location is from an unnamed stream at the southeast border of the landfill property.

The stream locations were sampled using a clean, long-handled dipper to collect the sample. The water was then transferred into each pre-preserved sample container. All water samples were stored on-ice in coolers prior to delivery to Phase Separation Science, Inc. for analysis. All water samples collected during this reporting period were laboratory-analyzed for the parameters listed in Tables I and II of Appendix A of the Groundwater and Surface Water Monitoring Plan (revised March 6, 2009). Field measurements for conductivity and pH are also reported in Table 2.

A field blank for the complete suite of parameters was prepared using distilled water which was pumped through the sampling pump. In addition, a trip blank was transported with the volatile organic compound (VOC) samples for each day of sampling. The results of these QA/QC samples are included in the laboratory reports (Tab 6).



7.0 WATER QUALITY

Water quality results are discussed under the headings general chemistry, metals, and VOCs. The analytical results are summarized and grouped in Tables 2, 3, 4, and 5 (Tab 2) as general chemistry, metals (monitoring wells and streams), and VOCs, respectively. Table 6 (Tab 2) summarizes the statistical comparisons between upgradient and downgradient wells. The laboratory reports of analysis are included in Tab 6.

General Chemistry

The results of the Table II parameters are summarized in Table 2 for the monitoring wells and surface water samples. Overall, the water ranges from slightly acidic to neutral, soft to moderately hard, with wide variations in dissolved solids. There have been both increases and decreases in some Table 2 parameters since the last sampling event (March 2020), likely due to changes in precipitation and groundwater levels.

Metals

The results of groundwater and stream sampling and analyses for metals are shown on Tables 3 and 4, respectively. For most of the monitoring wells, total iron and manganese exceeded applicable secondary maximum contaminant level (SMCL) as indicated by red font highlighting of exceedances in Table 3. These compounds are persistent and naturally-occurring, are likely not related to disposal of waste material, and are only of aesthetic (non-health) concern.

VOCs

The analytical results for VOCs are summarized in Table 5. There were no first time exceedances of VOCs in groundwater or surface water sampling this event. The following is a summary of detected VOCs:

- Chloromethane was reported in MW-4A (0.61J µg/l)
- 1,1-Dichloroethane was reported in MW-11R (0.97J µg/l)
- MTBE was reported in MW-11R (3.8 µg/l) and MW-12R (1.9 µg/l)
- Methylene chloride was reported in MW-11R (0.78J µg/l)

QA/QC Samples

Arc Environmental collected two trip blanks and one field blank, which was collected from the low-flow purge pump, to identify if any field procedures or sample bottle transport could cause sample contamination. Antimony at 0.0060 mg/L, magnesium at 0.10 mg/L, sodium at 0.25mg/L, methylene chloride at 0.76 µg/l, and chloroform at 0.63 µg/l were reported in the field blank sample. Methylene chloride was detected at an estimated concentration below the method detection limit (J) of 0.60 µg/l in one of the trip blank samples (Trip Blank GW). No other VOCs were detected in the remaining trip blank samples. These compounds were not detected in the



groundwater samples at levels indicative of sampling methodology/equipment procedure contamination.

8.0 STATISTICAL AND TREND ANALYSES

Following the revised monitoring plan, Arc Environmental completed an aggregation of the groundwater water quality analytical results, statistical comparison of up-gradient and down-gradient values and graphical trend analyses of parameters with exceedances and showing significant positive differences between up- and down-gradient analyses.

Statistics

All the analytical data shown on Tables 2, 3, 4, and 5 were combined into a single database for analyses. Where the results are below detection, half the method detection limit value is used. The monitoring well locations are grouped into up- and down-gradient subsets. The mean, median, minimum, maximum, and 75th percentile values for the past three years are calculated and compared to each other as a percentage change. The results of the statistical analyses are summarized in Table 6.

As indicated, many parameters show widely ranging values, with most showing no significant difference between up- and down-gradient values. The maximum values showed the largest changes, while the minimum values failed to distinguish any significant differences. Many mean (or average) values reflect significant differences, although the mean is positively sensitive to higher values. Median and 75th percentage values likely best represent populations of wide-ranging values such as these, and the differences in the number of exceedances reflect monitoring concerns. As indicated, the compounds which show significant positive (downgradient value is larger than upgradient value) differences (>50%) between up- and down-gradient location median values include specific conductivity, alkalinity, hardness, sulfate, TDS, and potassium. Compounds with significant negative (upgradient value is larger than downgradient value) differences (>50%) in median values include iron and manganese.

Graphical Trends

The compounds for which there were significant historical differences between up- and down-gradient values and for which comparison criteria apply are selected for graphical trend analyses. As highlighted in Table 6, these include sulfate, TDS, arsenic, iron, and manganese. For each monitoring point, the values for these five parameters were plotted on semi-logarithmic graphs versus time (as dates beginning January 1, 2002). Graphs for each monitoring point are presented in Tab 3.



As shown, there have been fluctuations in chemistry in both the up- and down-gradient wells during their sampling history. Overall, groundwater quality has been fairly consistent but a few general trends in the graphed parameters are discernable:

- MW-1 (downgradient): iron showed an increasing trend between 2002 and 2011, but has shown a slight decreasing trend since 2011.
- MW-3 (downgradient): slight decreasing trend for manganese.
- MW-4A (downgradient): slight decreasing trend for iron, manganese, and arsenic.
- MW-6 (downgradient): slight increasing trend for iron and manganese.
- MW-7 (downgradient): slight increasing trend for iron.
- MW-8 (upgradient): slight increasing trend for arsenic and manganese.
- MW-9 (upgradient): increasing trend for iron and manganese.
- MW-12R (downgradient): slight increasing trend for arsenic and iron and a slight decreasing trend for sulfate.
- MW-13 (downgradient): decreasing trend for iron and manganese.

No distinctive trends were observed in downgradient wells MW-2 and MW-5 or in upgradient wells MW-10R and MW-11R. In all, the lack of distinctive trends indicates relatively stable groundwater conditions.

TAB 1

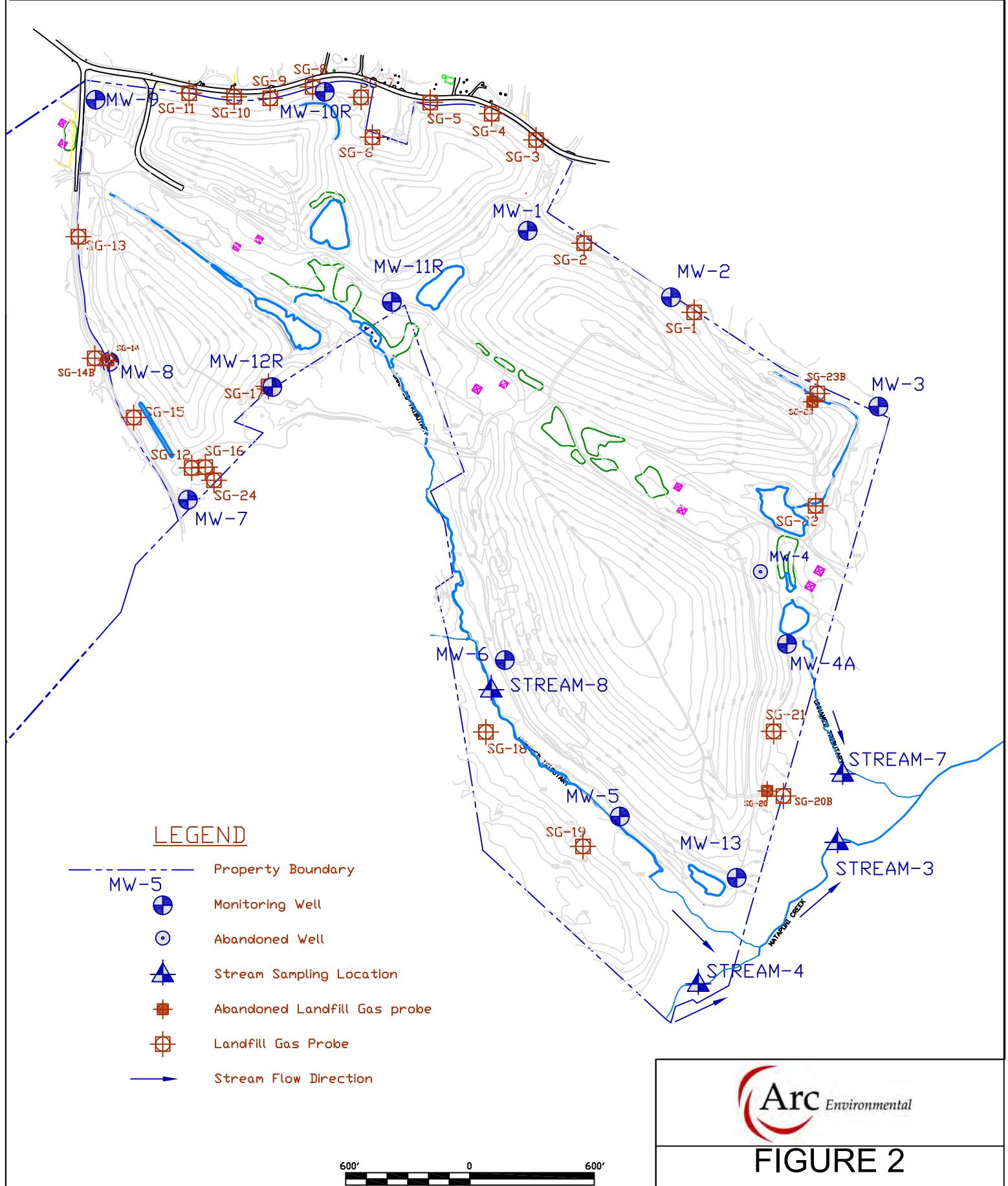
FIGURES



FIGURE 1

SITE LOCATION MAP

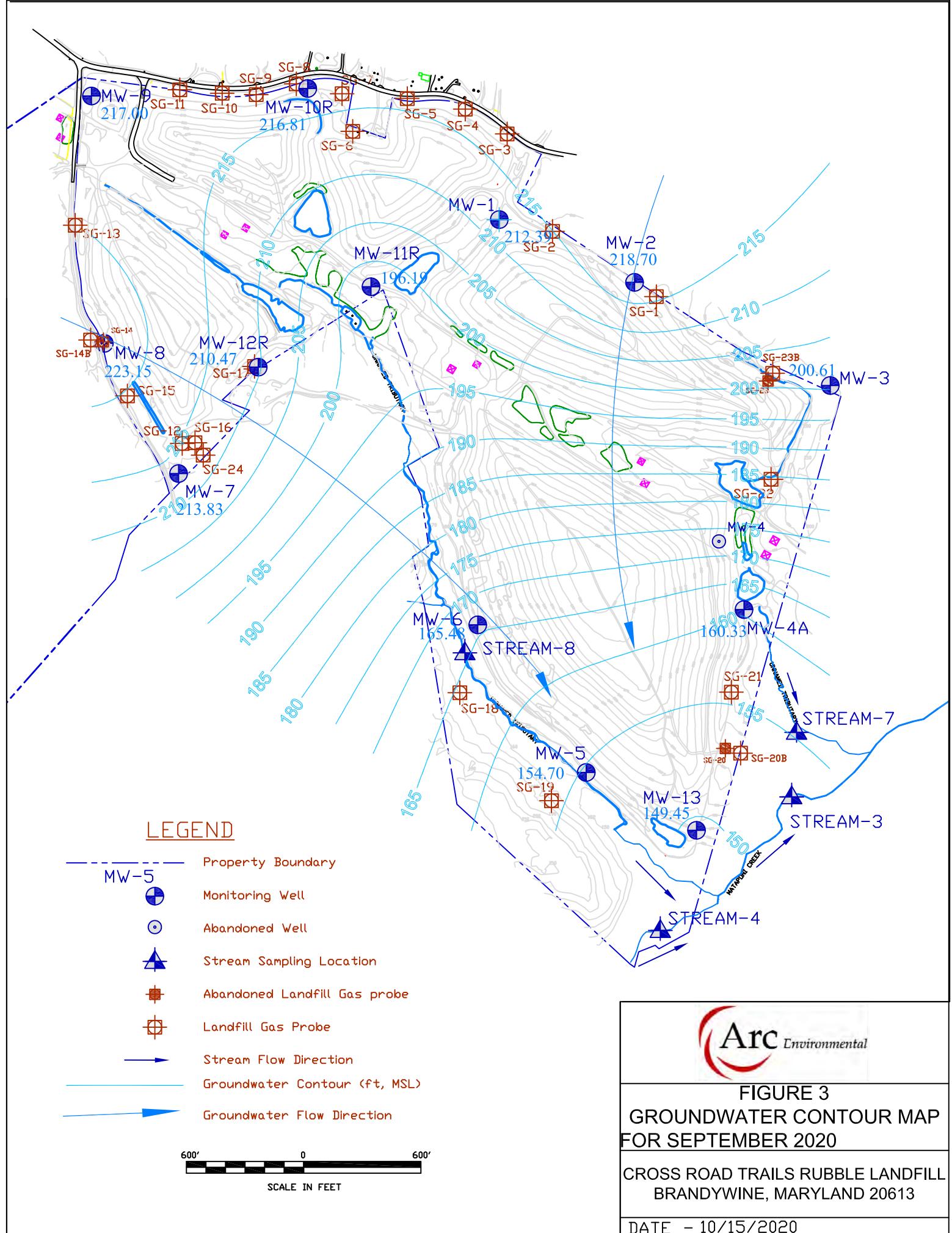
Cross Road Trails Rubble Landfill
Brandywine, Maryland 20613



**FIGURE 2
SITE MAP**

CROSS ROAD TRAILS RUBBLE LANDFILL
BRANDYWINE, MARYLAND 20613

DATE - 6/12/2018



TAB 2

TABLES

Table 1. Depth to Water and Groundwater Elevations

Table 1. Depth to Water and Groundwater Elevations

	MW-1		MW-2		MW-3		MW-4A		MW-5		MW-6		MW-7		MW-8		MW-9		MW-10R		MW-11R		MW-12R		MW-13			
Csg. Elev.	230.84		237.02		214.42		172.17		159.25		178.20		220.01		233.28		229.50		230.01		210.51		225.44		170.70			
Ground Elev.																												
Date	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)		
22-Nov-93	15.13	212.01	23.21	213.81	16.62	197.8	not yet installed	5	154.25	12.53	165.67	8.4	211.61	15.8	217.48	13.49	216.01	not yet installed	not yet installed	not yet installed	not yet installed							
22-Dec-93	14.5	212.64	23.39	213.63	14.76	199.66	not yet installed	5.05	154.2	11.88	166.32	5.33	214.68	13.86	219.42	11.91	217.59	not yet installed	not yet installed	not yet installed	not yet installed							
31-Jan-94	13.55	213.59	22.84	214.18	12.2	202.22	not yet installed	4.9	154.35	12.75	165.45	4.39	215.62	11.57	221.71	10.7	218.80	not yet installed	not yet installed	not yet installed	not yet installed							
16-Feb-94	13.37	213.77	22.48	214.54	12.00	202.42	not yet installed	4.77	154.48	12.33	165.87	4.30	215.71	11.06	222.22	10.36	219.14	not yet installed	not yet installed	not yet installed	15.43	211.35	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
17-Mar-94	11.33	215.81	20.55	216.47	8.22	206.20	not yet installed	4.60	154.65	12.59	165.61	4.10	215.91	7.93	225.35	7.80	221.70	not yet installed	not yet installed	not yet installed	13.43	213.35	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
19-Apr-94	11.60	215.54	19.30	217.72	8.84	205.58	not yet installed	4.41	154.84	12.65	165.55	4.45	215.56	8.56	224.72	8.73	220.77	not yet installed	not yet installed	not yet installed	13.70	213.08	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
24-May-94	12.76	214.38	20.13	216.89	11.50	202.92	not yet installed	4.51	154.74	13.18	165.02	6.42	213.59	11.70	221.58	10.67	218.83	not yet installed	not yet installed	not yet installed	15.03	211.75	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
23-Jun-94	13.64	213.50	20.96	216.06	13.62	200.80	not yet installed	4.73	154.52	13.55	164.65	7.77	212.24	12.96	220.32	11.74	217.76	not yet installed	not yet installed	not yet installed	15.8	210.98	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
28-Jul-94	13.95	213.19	21.77	215.25	14.70	199.72	not yet installed	4.65	154.60	13.58	164.62	7.19	212.82	13.82	219.46	12.33	217.17	not yet installed	not yet installed	not yet installed	16.07	210.71	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
15-Aug-94	14.23	212.91	22.08	214.94	14.90	199.52	not yet installed	4.72	154.53	12.82	165.38	7.63	212.38	13.63	219.65	12.50	217.00	not yet installed	not yet installed	not yet installed	16.15	210.63	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
16-Sep-94	14.66	212.48	22.45	214.57	15.52	198.90	not yet installed	5.00	154.25	13.07	165.13	7.92	212.09	13.83	219.45	12.76	216.74	not yet installed	not yet installed	not yet installed	16.44	210.34	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
11-Oct-94	14.6	212.54	22.75	214.27	15.41	199.01	not yet installed	4.94	154.31	12.91	165.29	7.58	212.43	13.73	219.55	12.6	216.90	not yet installed	not yet installed	not yet installed	16.45	210.33	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
15-Nov-94	15.27	211.87	23.12	213.90	15.50	198.92	not yet installed	4.98	154.27	13.37	164.83	7.91	212.10	14.47	218.81	13.10	216.40	16.62	213.39	not yet installed	16.92	209.86	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
15-Dec-94	15.30	211.84	23.43	213.59	15.10	199.32	not yet installed	4.90	154.35	12.59	165.61	7.37	212.64	14.98	218.30	13.20	216.30	16.67	213.34	not yet installed	16.82	209.96	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
12-Jan-95	15.26	211.88	23.63	213.39	14.63	199.79	not yet installed	4.88	154.37	12.52	165.68	6.68	213.33	14.93	218.35	13.01	216.49	16.56	213.45	not yet installed	16.68	210.10	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
14-Feb-95	15.21	211.93	23.75	213.27	13.86	200.56	not yet installed	4.90	154.35	13.01	165.19	6.64	213.37	14.17	219.11	12.43	217.07	16.06	213.95	not yet installed	16.51	210.27	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
20-Mar-95	14.70	212.44	23.46	213.56	12.57	201.85	not yet installed	4.71	154.54	12.66	165.54	5.84	214.17	12.90	220.38	11.58	217.92	15.26	214.75	not yet installed	15.97	210.81	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
20-Apr-95	14.90	212.24	23.27	213.75	12.66	201.76	not yet installed	4.71	154.54	13.05	165.15	6.45	213.56	13.41	219.87	12.10	217.40	15.47	214.54	not yet installed	16.27	210.51	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
17-May-95	14.82	212.32	23.28	213.74	13.00	201.42	not yet installed	4.67	154.58	12.49	165.71	6.57	213.44	13.29	219.99	11.97	217.53	15.56	214.45	not yet installed	16.21	210.57	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
21-Jun-95	14.89	212.25	23.21	213.81	14.19	200.23	not yet installed	4.84	154.41	12.96	165.24	7.2	212.81	13.03	220.25	12.05	217.45	15.37	214.64	not yet installed	16.06	210.72	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed	not yet installed
9-Aug-95	14.49	212.65	22.92	214.10	14.38	200.04	not yet installed	4.9	154.35	13.13	165.07	7.32	212.69	12.95	220.33													

Table 1. Depth to Water and Groundwater Elevations

	MW-1		MW-2		MW-3		MW-4A		MW-5		MW-6		MW-7		MW-8		MW-9		MW-10R		MW-11R		MW-12R		MW-13	
Csg. Elev.	230.84		237.02		214.42		172.17		159.25		178.20		220.01		233.28		229.50		230.01		210.51		225.44		170.70	
Ground Elev.																										
Date	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)
18-Dec-97	14.88	212.26	22.71	214.31	15.65	198.77	not yet installed	4.90	154.35	12.59	165.61	7.15	212.86	14.25	219.03	12.41	217.09	14.86	215.15	not yet installed	16.15	210.63	not yet installed			
7-Jan-98	14.68	212.46	23.57	213.45	15.02	199.40	not yet installed	4.64	154.61	12.25	165.95	6.43	213.58	13.91	219.37	12.24	217.26	14.75	215.26	not yet installed	16.08	210.70	not yet installed			
2-Feb-98	12.58	214.56	23.12	213.90	11.45	202.97	not yet installed	4.65	154.60	11.64	166.56	4.55	215.46	11.80	221.48	9.37	220.13	12.41	217.60	not yet installed	14.46	212.32	not yet installed			
16-Mar-98	11.96	215.18	20.28	216.74	8.75	205.67	not yet installed	4.45	154.80	12.21	165.99	4.23	215.78	9.33	223.95	7.93	221.57	11.54	218.47	not yet installed	13.41	213.37	not yet installed			
13-Apr-98	12.10	215.04	19.60	217.42	9.15	205.27	not yet installed	4.30	154.95	11.83	166.37	4.33	215.68	9.77	223.51	8.89	220.61	11.86	218.15	not yet installed	13.95	212.83	not yet installed			
28-May-98	12.47	214.67	19.97	217.05	11.42	203.00	not yet installed	4.37	154.88	12.65	165.55	5.85	214.16	11.25	222.03	10.16	219.34	12.61	217.40	not yet installed	14.62	212.16	not yet installed			
24-Jun-98	13.10	214.04	20.61	216.41	12.33	202.09	not yet installed	4.33	154.92	12.37	165.83	6.42	213.59	11.86	221.42	10.95	218.55	13.09	216.92	not yet installed	15.01	211.77	not yet installed			
14-Jul-98	13.60	213.54	21.06	215.96	13.66	200.76	not yet installed	4.58	154.67	13.18	165.02	7.45	212.56	12.88	220.40	11.38	218.12	13.65	216.36	not yet installed	15.47	211.31	not yet installed			
7-Aug-98	14.09	213.05	21.56	215.46	15.25	199.17	not yet installed	4.86	154.39	13.81	164.39	8.45	211.56	13.88	219.40	12.30	217.20	14.30	215.71	not yet installed	15.98	210.80	not yet installed			
8-Sep-98	14.48	212.66	22.20	214.82	16.33	198.09	not yet installed	5.30	153.95	14.02	164.18	8.73	211.28	14.64	218.64	12.84	216.66	14.77	215.24	not yet installed	16.31	210.47	not yet installed			
28-Oct-98	14.90	212.24	22.95	214.07	17.68	196.74	not yet installed	5.35	153.90	14.11	164.09	9.26	210.75	15.97	217.31	13.52	215.98	15.35	214.66	not yet installed	16.97	209.81	not yet installed			
17-Nov-98	15.25	211.89	23.23	213.79	17.81	196.61	not yet installed	5.54	153.71	14.70	163.50	9.38	210.63	16.40	216.88	13.72	215.78	15.68	214.33	not yet installed	17.15	209.63	not yet installed			
14-Dec-98	15.30	211.84	23.56	213.46	17.70	196.72	not yet installed	5.28	153.97	14.52	163.68	9.17	210.84	16.98	216.30	13.86	215.64	15.71	214.30	not yet installed	17.25	209.53	not yet installed			
27-Jan-99	14.55	212.59	23.95	213.07	16.55	197.87	not yet installed	4.96	154.29	11.08	167.12	6.33	213.68	16.40	216.88	12.73	216.77	15.12	214.89	not yet installed	16.10	210.68	not yet installed			
15-Feb-99	14.54	212.60	23.83	213.19	15.46	198.96	not yet installed	4.95	154.30	11.40	166.80	5.65	214.36	16.40	216.88	12.73	216.77	15.12	214.89	not yet installed	15.90	210.88	not yet installed			
16-Mar-99	13.70	213.44	23.51	213.51	12.93	201.49	not yet installed	4.37	154.88	9.65	168.55	4.21	215.80	13.99	219.29	11.45	218.05	13.79	216.22	not yet installed	15.15	211.63	not yet installed			
22-Apr-99	13.70	213.44	22.51	214.51	12.93	201.49	not yet installed	4.75	154.50	12.55	165.65	5.50	214.51	13.25	220.03	10.73	218.77	13.41	216.60	not yet installed	15.15	211.63	not yet installed			
11-May-99	14.01	213.13	22.38	214.64	13.41	201.01	not yet installed	4.83	154.42	12.71	165.49	6.13	213.88	13.65	219.63	11.37	218.13	13.74	216.27	not yet installed	15.41	211.37	not yet installed			
28-Jun-99	14.61	212.53	22.71	214.31	15.80	198.62	not yet installed	5.05	154.20	13.92	164.28	8.23	211.78	14.86	218.42	12.41	217.09	14.68	215.33	not yet installed	16.17	210.61	not yet installed			
15-Jul-99	14.83	212.31	23.03	213.99	16.57	197.85	not yet installed	5.32	153.93	14.13	164.07	8.69	211.32	15.36	217.92	12.70	216.80	14.97	215.04	not yet installed	16.42	210.36	not yet installed			
10-Aug-99	15.10	212.04	23.29	213.73	16.83	197.59	not yet installed	5.84	153.41	14.65	163.55	9.22	210.79	15.96	217.32	13.15	216.35	15.31	214.70	not yet installed	16.75	210.03	not yet installed			
6-Oct-99	13.38	213.76	22.91	214.11	14.18	200.24	not yet installed	5.08	154.17	11.71	166.49	5.72	214.29	13.71	219.57	10.03	219.47	12.64	217.37	not yet installed	14.86	211.92	not yet installed			
23-Nov-99	14.27	212.87	22.67	214.35	14.28	200.14	not yet installed	4.87	154.																	

Table 1. Depth to Water and Groundwater Elevations

	MW-1		MW-2		MW-3		MW-4A		MW-5		MW-6		MW-7		MW-8		MW-9		MW-10R		MW-11R		MW-12R		MW-13	
Csg. Elev.	230.84		237.02		214.42		172.17		159.25		178.20		220.01		233.28		229.50		230.01		210.51		225.44		170.70	
Ground Elev.																										
Date	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)
2-Oct-01	14.58	212.56	22.55	214.47	15.34	199.08	not yet installed	4.64	154.61	13.48	164.72	7.85	212.16	14.04	219.24	12.42	217.08	14.28	215.73	not yet installed	15.84	210.94	not yet installed			
15-Nov-01	15.18	211.96	23.07	213.95	16.28	198.14	not yet installed	4.65	154.60	13.91	164.29	8.70	211.31	15.51	217.77	13.21	216.29	15.18	214.83	not yet installed	16.59	210.19	not yet installed			
17-Dec-01	15.44	211.70	23.38	213.64	16.21	198.21	not yet installed	4.65	154.60	14.00	164.20	8.85	211.16	16.25	217.03	13.58	215.92	15.60	214.41	not yet installed	16.90	209.88	not yet installed			
14-Jan-02	15.58	211.56	23.70	213.32	16.18	198.24	not yet installed	4.68	154.57	13.82	164.38	8.50	211.51	16.89	216.39	13.78	215.72	15.92	214.09	not yet installed	17.05	209.73	not yet installed			
12-Feb-02	15.70	211.44	23.98	213.04	16.07	198.35	not yet installed	4.68	154.57	12.50	165.70	8.80	211.21	17.19	216.09	13.90	215.60	16.12	213.89	not yet installed	17.11	209.67	not yet installed			
25-Mar-02	15.35	211.79	24.25	212.77	15.63	198.79	not yet installed	4.61	154.64	13.11	165.09	7.59	212.42	17.15	216.13	13.57	215.93	16.05	213.96	not yet installed	16.85	209.93	not yet installed			
23-Apr-02	15.25	211.89	24.30	212.72	15.22	199.20	not yet installed	4.73	154.52	11.63	166.57	6.95	213.06	16.40	216.88	13.07	216.43	15.81	214.20	not yet installed	16.55	210.23	not yet installed			
16-May-02	15.24	211.90	24.10	212.92	15.38	199.04	not yet installed	4.81	154.44	12.61	165.59	7.37	212.64	15.72	217.56	12.55	216.95	15.42	214.59	not yet installed	16.21	210.57	not yet installed			
13-Jun-02	15.40	211.74	24.09	212.93	16.45	197.97	not yet installed	4.92	154.33	13.25	164.95	8.13	211.88	15.48	217.80	12.61	216.89	15.42	214.59	not yet installed	16.29	210.49	not yet installed			
10-Jul-02	15.70	211.44	24.30	212.72	17.43	196.99	not yet installed	5.58	153.67	14.18	164.02	8.88	211.13	15.91	217.37	13.05	216.45	15.74	214.27	not yet installed	16.66	210.12	not yet installed			
26-Aug-02	16.20	210.94	24.55	212.47	19.23	195.19	not yet installed	6.82	152.43	16.18	162.02	9.62	210.39	16.84	216.44	13.73	215.77	16.30	213.71	not yet installed	17.26	209.52	not yet installed			
30-Sep-02	16.30	210.84	24.75	212.27	19.96	194.46	not yet installed	6.62	152.63	16.52	161.68	9.75	210.26	17.41	215.87	13.92	215.58	16.51	213.50	not yet installed	17.47	209.31	not yet installed			
8-Oct-02	16.34	210.80	24.78	212.24	20.20	194.22	not yet installed	6.72	152.53	16.65	161.55	9.84	210.17	17.47	215.81	14.00	215.50	16.56	213.45	not yet installed	17.53	209.25	not yet installed			
5-Nov-02	15.54	211.60	24.95	212.07	20.20	194.22	not yet installed	6.22	153.03	10.88	167.32	8.25	211.76	17.30	215.98	12.95	216.55	16.19	213.82	not yet installed	16.83	209.95	not yet installed			
4-Dec-02	14.75	212.39	24.42	212.60	18.58	195.84	not yet installed	5.88	153.37	11.91	166.29	6.71	213.30	14.99	218.29	11.76	217.74	14.70	215.31	not yet installed	15.49	211.29	not yet installed			
8-Jan-03	12.36	214.78	23.58	213.44	13.37	201.05	not yet installed	5.14	154.11	10.32	167.88	3.61	216.40	9.60	223.68	8.45	221.05	11.78	218.23	not yet installed	13.51	213.27	not yet installed			
6-Feb-03	13.36	213.78	22.36	214.66	14.00	200.42	not yet installed	5.11	154.14	12.61	165.59	5.00	215.01	12.25	221.03	10.15	219.35	12.58	217.43	not yet installed	14.53	212.25	not yet installed			
12-Mar-03	11.92	215.22	21.03	215.99	9.08	205.34	not yet installed	4.63	154.62	10.87	167.33	3.64	216.37	8.06	225.22	7.28	222.22	11.15	218.86	not yet installed	12.59	214.19	not yet installed			
22-Apr-03	12.12	215.02	19.37	217.65	9.31	205.11	not yet installed	4.38	154.87	12.17	166.03	3.96	216.05	8.83	224.45	8.53	220.97	11.58	218.43	not yet installed	13.25	213.53	not yet installed			
8-May-03	12.66	214.48	19.68	217.34	10.65	203.77	not yet installed	4.38	154.87	12.65	165.55	4.90	215.11	11.00	222.28	9.65	219.85	11.99	218.02	not yet installed	13.97	212.81	not yet installed			
3-Jun-03	12.50	214.64	19.79	217.23	9.89	204.53	not yet installed	4.17	155.08	11.58	166.62	4.31	215.70	10.90	222.38	9.20	220.30	11.77	218.24	not yet installed	13.65	213.13	not yet installed			
14-Jul-03	12.34	214.80	19.42	217.60	10.50	203.92	not yet installed	3.65	155.60	12.06	166.14	4.90	215.11	9.61	223.67	9.16	220.34	11.75	218.26	not yet installed	13.75	213.03	not yet installed			
7-Aug-03	12.90	214.24	20.02	217.00	11.94	202.48	not yet installed	4.13	155.12	13																

Table 1. Depth to Water and Groundwater Elevations

	MW-1		MW-2		MW-3		MW-4A		MW-5		MW-6		MW-7		MW-8		MW-9		MW-10R		MW-11R		MW-12R		MW-13	
Csg. Elev.	230.84		237.02		214.42		172.17		159.25		178.20		220.01		233.28		229.50		230.01		210.51		225.44		170.70	
Ground Elev.																										
Date	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)
1-Jun-05	12.99	214.15	20.41	216.61	10.96	203.46	not yet installed	4.05	155.20	12.20	166.00	5.50	214.51	11.35	221.93	10.13	219.37	12.24	217.77	13.83	196.68	14.41	212.37	not yet installed		
6-Jul-05	13.58	213.56	20.92	216.10	12.92	201.50	not yet installed	4.08	155.17	13.22	164.98	7.06	212.95	13.05	220.23	11.48	218.02	13.10	216.91	14.24	196.27	15.24	211.54	not yet installed		
5-Aug-05	13.98	213.16	21.44	215.58	13.41	201.01	not yet installed	4.28	154.97	13.11	165.09	7.34	212.67	13.28	220.00	11.81	217.69	13.52	216.49	14.02	196.49	15.77	211.01	not yet installed		
6-Sep-05	14.48	212.66	22.03	214.99	14.29	200.13	not yet installed	4.55	154.70	13.89	164.31	8.28	211.73	14.40	218.88	12.56	216.94	14.31	215.70	14.45	196.06	16.05	210.73	not yet installed		
28-Oct-05	14.32	212.82	22.71	214.31	14.22	200.20	not yet installed	4.51	154.74	10.60	167.60	7.56	212.45	15.21	218.07	12.53	216.97	14.67	215.34	14.11	196.40	16.21	210.57	not yet installed		
9-Nov-05	14.58	212.56	22.71	214.31	15.35	199.07	not yet installed	4.53	154.72	12.17	166.03	7.98	212.03	14.96	218.32	12.49	217.01	14.69	215.32	14.25	196.26	16.15	210.63	not yet installed		
6-Dec-05	14.57	212.57	22.00	215.02	10.62	203.80	not yet installed	4.07	155.18	12.57	165.63	4.92	215.09	11.28	222.00	9.89	219.61	12.12	217.89	13.98	196.53	14.28	212.50	not yet installed		
5-Jan-06	13.87	213.27	22.58	214.44	13.19	201.23	not yet installed	4.44	154.81	10.59	167.61	5.45	214.56	13.30	219.98	11.48	218.02	13.67	216.34	14.06	196.45	15.30	211.48	not yet installed		
17-Feb-06	13.24	213.90	21.91	215.11	11.70	202.72	not yet installed	4.30	154.95	10.49	167.71	4.23	215.78	10.74	222.54	10.50	219.00	12.65	217.36	13.83	196.68	14.44	212.34	not yet installed		
20-Mar-06	13.88	213.26	21.65	215.37	12.15	202.27	not yet installed	4.32	154.93	12.65	165.55	5.75	214.26	12.24	221.04	11.04	218.46	13.10	216.91	14.05	196.46	14.81	211.97	not yet installed		
27-Apr-06	13.81	213.33	22.10	214.92	11.74	202.68	not yet installed	4.30	154.95	11.10	167.10	5.10	214.91	13.06	220.22	11.36	218.14	13.52	216.49	14.28	196.23	15.23	211.55	not yet installed		
18-May-06	14.07	213.07	21.79	215.23	12.62	201.80	not yet installed	4.22	155.03	12.89	165.31	6.45	213.56	13.36	219.92	11.63	217.87	13.80	216.21	14.32	196.19	15.40	211.38	not yet installed		
16-Jun-06	14.60	212.54	22.28	214.74	13.12	201.30	not yet installed	4.47	154.78	13.51	164.69	7.81	212.20	14.31	218.97	12.28	217.22	14.44	215.57	15.58	194.93	15.90	210.88	not yet installed		
10-Jul-06	13.10	214.04	22.10	214.92	12.75	201.67	not yet installed	4.20	155.05	11.09	167.11	5.70	214.31	12.33	220.95	9.78	219.72	12.58	217.43	14.41	196.10	14.13	212.65	not yet installed		
9-Aug-06	13.85	213.29	21.81	215.21	12.81	201.61	not yet installed	4.41	154.84	13.05	165.15	7.09	212.92	12.93	220.35	11.10	218.40	13.27	216.74	14.03	196.48	15.06	211.72	not yet installed		
7-Sep-06	13.02	214.12	22.15	214.87	12.55	201.87	not yet installed	4.21	155.04	9.80	168.40	5.88	214.13	12.95	220.33	10.28	219.22	12.62	217.39	13.13	197.38	14.70	212.08	not yet installed		
25-Oct-06	13.75	213.39	21.87	215.15	13.03	201.39	not yet installed	4.33	154.92	12.31	165.89	6.30	213.71	12.54	220.74	11.24	218.26	13.23	216.78	13.96	196.55		226.78	not yet installed		
28-Nov-06	12.60	214.54	21.40	215.62	12.15	202.27	not yet installed	4.19	155.06	11.60	166.60	4.27	215.74	8.99	224.29	8.80	220.70	11.71	218.30	13.59	196.92	13.70	213.08	not yet installed		
11-Dec-06	13.15	213.99	21.00	216.02	10.99	203.43	not yet installed	4.20	155.05	12.48	165.72	5.10	214.91	10.82	222.46	9.75	219.75	12.12	217.89	13.91	196.60	14.24	212.54	not yet installed		
10-Jan-07	12.81	214.33	21.07	215.95	9.78	204.64	not yet installed	4.09	155.16	10.31	167.89	4.02	215.99	9.71	223.57	9.77	219.73	12.12	217.89	13.75	196.76	14.28	212.50	not yet installed		
7-Feb-07	13.50	213.64	20.85	216.17	10.98	203.44	not yet installed	4.25	155.00	10.51	167.69	5.40	214.61	9.90	223.38	10.65	218.85	12.71	217.30	14.09	196.42	14.67	212.11	not yet installed		
5-Mar-07	13.28	213.86	21.02	216.00	10.63	203.79	not yet installed	4.01	155.24	10.90	167.30	4.41	215.60	10.65	222.63	10.53	218.9									

Table 1. Depth to Water and Groundwater Elevations

	MW-1		MW-2		MW-3		MW-4A		MW-5		MW-6		MW-7		MW-8		MW-9		MW-10R		MW-11R		MW-12R		MW-13			
Csg. Elev.	230.84		237.02		214.42		172.17		159.25		178.20		220.01		233.28		229.50		230.01		210.51		225.44		170.70			
Ground Elev.																												
Date	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)	Depth to Water (ft)	Groundwater Elev. (ft msl)		
26-Feb-09	14.46	212.68	22.28	214.74	11.33	203.09	not yet installed	4.02	155.23	12.18	166.02	5.69	214.32	14.27	219.01	11.80	217.70	13.67	216.34	13.32	197.19	NA	--	not yet installed				
25-Mar-09	14.51	212.63	22.37	214.65	11.29	203.13	not yet installed	3.93	155.32	11.97	166.23	5.44	214.57	14.26	219.02	11.85	217.65	13.82	216.19	14.27	196.24	15.90	210.88	not yet installed				
28-Sep-09	14.13	213.01	21.60	215.42	13.51	200.91	not yet installed	3.87	155.38	12.75	165.45	6.68	213.33	15.08	218.20	12.23	217.27	13.65	216.36	14.28	196.23	15.98	210.80	not yet installed				
24-Mar-10	15.90	214.94	18.89	218.13	7.27	207.15	not yet installed	3.41	155.84	11.44	166.76	3.02	216.99	8.64	224.64	8.06	221.44	10.60	219.41	13.70	196.81	13.39	213.39	not yet installed				
5-Oct-10	18.40	212.44	22.35	214.67	14.51	199.91	not yet installed	3.97	155.28	10.41	167.79	6.35	213.66	16.10	217.18	12.37	217.13	14.50	215.51	14.35	196.16	15.51	211.27	not yet installed				
28-Mar-11	17.31	213.53	21.82	215.20	9.68	204.74	not yet installed	3.62	155.63	11.16	167.04	3.51	216.50	11.56	221.72	9.62	219.88	12.31	217.70	13.91	196.60	14.76	212.02	not yet installed				
28-Sep-11	16.19	214.65	20.95	216.07	7.75	206.67	not yet installed	3.32	155.93	11.51	166.69	3.51	216.50	9.88	223.40	8.31	221.19	10.69	219.32	13.76	196.75	13.72	213.06	not yet installed				
27-Mar-12	17.52	213.32	20.74	216.28	9.27	205.15	not yet installed	3.22	156.03	12.01	166.19	4.61	215.40	12.80	220.48	10.90	218.60	12.91	217.10	13.93	196.58	15.31	211.47	not yet installed				
19-Sep-12	19.35	211.49	22.85	214.17	15.00	199.42	not yet installed	4.40	154.85	13.94	164.26	8.02	211.99	16.81	216.47	13.54	215.96	15.55	214.46	14.86	195.65	17.08	209.70	not yet installed				
26-Mar-13	17.20	213.64	21.75	215.27	11.68	202.74	not yet installed	3.94	155.31	11.30	166.90	3.23	216.78	13.42	219.86	10.05	219.45	12.68	217.33	14.05	196.46	15.74	211.04	not yet installed				
24-Sep-13	18.36	212.48	21.75	215.27	13.56	200.86	not yet installed	4.33	154.92	13.11	165.09	7.15	212.86	15.01	218.27	12.34	217.16	14.38	215.63	14.64	195.87	16.56	210.22	not yet installed				
24-Mar-14	16.53	214.31	19.76	217.26	8.49	205.93	12.07	NA	3.74	155.51	12.17	166.03	3.27	216.74	11.05	222.23	9.24	220.26	11.78	218.23	13.86	196.65	14.97	211.81	21.39	NA		
22-Sep-14	18.30	212.54	21.80	215.22	13.21	201.21	12.13	160.04	4.00	155.25	13.15	165.05	3.93	216.08	14.40	218.88	12.03	217.47	14.23	215.78	14.50	196.01	16.45	208.99	27.10	143.60		
23-Mar-15	17.38	213.46	21.65	215.37	9.47	204.95	11.81	160.36	3.81	155.44	11.85	166.35	3.67	216.34	12.65	220.63	9.85	219.65	12.61	217.40	13.75	196.76	15.90	209.54	21.61	149.09		
22-Sep-15	18.81	212.03	22.10	214.92	14.79	199.63	12.27	159.90	5.22	154.03	13.28	164.92	7.73	212.28	15.47	217.81	12.97	216.53	15.07	214.94	14.72	195.79	17.00	208.44	29.65	141.05		
15-Mar-16	17.18	213.66	20.90	216.12	10.22	204.20	11.95	160.22	3.95	155.30	12.16	166.04	3.96	216.05	11.91	221.37	9.98	219.52	12.63	217.38	14.01	196.50	15.26	210.18	22.60	148.10		
20-Sep-16	18.73	212.11	22.04	214.98	14.81	199.61	12.08	160.09	4.63	154.62	12.94	165.26	7.37	212.64	14.53	218.75	12.75	216.75	14.99	215.02	14.73	195.78	16.73	208.71	28.36	142.34		
21-Mar-17	18.40	212.44	23.32	213.70	13.97	200.45	10.60	161.57	4.72	154.53	13.01	165.19	5.79	214.22	15.55	217.73	12.82	216.68	15.70	214.31	14.31	196.20	17.69	207.75	23.52	147.18		
18-Sep-17	18.49	212.35	22.93	214.09	14.21	200.21	12.22	159.95	4.95	154.30	13.02	165.18	7.68	212.33	15.16	218.12	11.77	217.73	14.62	215.39	14.25	196.26	17.50	207.94	29.12	141.58		
19-Mar-18	17.92	212.92	23.33	213.69	13.88	200.54	12.07	160.10	4.70	154.55	13.07	165.13	4.51	215.50	15.61	217.67	10.71	218.79	13.73	216.28	14.05	196.46	16.82	208.62	24.75	145.95		
7-Oct-18	16.78	214.06	21.29	215.73	11.99	202.43	12.80	159.37	4.44	154.81	12.77	165.43	6.11	213.90	12.96	220.32	10.54	218.96	13.01	217.00	13.91</td							

Table 2. General Chemistry Analysis

Location	Date	pH (Field) (SU)	Spec. Cond. (field) (umhos/cm)	Turbidity (NTU)	Alkalinity (mg/l)	Ammonia (mg/l)	COD (mg/l)	Hardness (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	total chloride (mg/l)	TDS (mg/l)
MW- 1	15-Sep-20	6.41	493	85	200	0.6	17	280	ND	60	4.7	290
MW- 1	11-Mar-20	6.52	547	200	180	ND	20	280	0.5	77	6.0	320
MW- 1	11-Sep-19	5.99	556	350	230	0.7	16	310	0.8	63	6.8	350
MW- 1	19-Mar-19	6.87	458	220	230	ND	17	270	0.4	71	6.6	350
MW- 1	7-Oct-18	6.30	551	200	220	0.7	16	310	0.2	99	7.4	370
MW- 1	19-Mar-18	6.69	497	300	210	0.2	17	330	0.4	100	9.2	390
MW- 1	18-Sep-17	6.84	574	85	220	1.0	20	330	0.7	96	8.5	1,600
MW- 1	21-Mar-17	6.49	629	260	230	0.2	17	340	0.2	130	10	450
MW- 1	20-Sep-16	6.49	674	220	188	0.7	16	300	ND	130	16	410
MW- 1	15-Mar-16	7.01	541	1,500	206	0.6	32	350	ND	170	12	460
MW- 1	22-Sep-15	6.57	390	290	175	ND	17	320	ND	140	23	430
MW- 1	23-Mar-15	6.87	560	400	204	0.71	20	380	ND	170	16	510
MW- 1	22-Sep-14	6.64	483	250	137	0.72	19	280	ND	120	24	400
MW- 1	24-Mar-14	6.38	556	430	172	0.47	25	380	4.0	190	19	430
MW- 1	24-Sep-13	7.18	562	160	147	0.70	22	340	ND	140	26	420
MW- 1	26-Mar-13	7.22	658	700	162	0.77	27	340	ND	150	25	410
MW- 1	19-Sep-12	7.25	402	150	121	0.7	36	180	0.4	65	37	300
MW- 1	27-Mar-12	7.17	367	110	125	0.3	8	180	0.1	67	39	240
MW- 1	28-Sep-11	6.39	398	1,800	82	ND	136	210	0.1	58	42	250
MW- 1	28-Mar-11	6.95	400	5	65	0.3	7	140	0.4	66	33	190
MW- 1	5-Oct-10	6.88	362	87	105	ND	12	160	0.3	66	29	270
MW- 1	24-Mar-10	6.21	301	130	81	ND	ND	150	0.3	70	23	200
MW- 1	28-Sep-09	6.15	292	99	75	0.4	ND	140	ND	77	15	170
MW- 1	26-Mar-09	5.99	263	370	59	0.4	ND	140	ND	74	15	190
MW- 1	11-Aug-08	5.22	289	284	27	0.1	ND	84	ND	52	25	173
MW- 1	16-Apr-08	4.94	271	7	62	0.1	ND	118	0.1	64	17	186
MW- 1	10-Oct-07	5.62	231	21	31	ND	ND	17	0.1	61	14	162
MW- 1	10-Apr-07	5.72	445	3	45	ND	12	95	0.1	49	13	179
MW- 1	25-Oct-06	5.54	266	0	37	ND	ND	82	ND	58	14	157
MW- 1	27-Apr-06	5.85	283	5	45	ND	25	110	ND	63	14	74
MW- 1	10-Nov-05	6.95	319	1	36	ND	ND	90	ND	65	12	169
MW- 1	6-Apr-05	5.61	286	2	57	ND	21	110	ND	69	16	200
MW- 1	13-Oct-04	6.01	294	1	31	ND	ND	91	ND	78	15	182
MW- 1	29-Apr-04	NA*	361	1	43	ND	ND	130	ND	92	16	214
MW- 1	8-Oct-03	5.64	452	ND	38	0.4	ND	140	0.2	160	14	500
MW- 1	23-Apr-03	6.50	399	ND	54	0.6	ND	160	0.3	96	13	250
MW- 1	8-Oct-02	6.26	373	ND	26	0.3	ND	130	ND	73	17	210
MW- 1	26-Mar-02	5.83	402	3	40	0.2	ND	140	0.3	59	15	120
MW- 2	15-Sep-20	5.11	53	2.8	4.8	ND	ND	19	ND	18	2.7J	72
MW- 2	10-Mar-20	5.59	59	10	10	ND	ND	15	ND	11	2.6J	71
MW- 2	12-Sep-19	4.33	61	250	8.4	ND	ND	17	ND	14	2.7J	57
MW- 2	19-Mar-19	6.68	57	0.8	16	ND	ND	20	0.058J	11	2.7J	130
MW- 2	7-Oct-18	5.25	46	54	4.0	ND	ND	16	0.1	12	2.9	68
MW- 2	19-Mar-18	6.71	49	2.7	11	ND	ND	16	ND	10	ND	60
MW- 2	18-Sep-17	6.91	58	4.5	6.0	ND	ND	17	ND	10	ND	73
MW- 2	21-Mar-17	5.78	54	27	5.5	ND	ND	16	ND	10	ND	140
MW- 2	20-Sep-16	5.18	68	4.2	11	ND	ND	15	ND	12	ND	200
MW- 2	15-Mar-16	5.29	45	10	10	ND	ND	18	ND	11	ND	50
MW- 2	22-Sep-15	5.58	45	14	6.1	ND	ND	17	ND	10	ND	74
MW- 2	23-Mar-15	6.00	46	18	8.0	ND	ND	17	ND	6.2	ND	110
MW- 2	22-Sep-14	5.95	50	2.4	7.3	ND	ND	15	ND	5.2	ND	88
MW- 2	25-Mar-14	5.92	43	6.4	7.9	ND	ND	15	0.6	5.8	ND	93
MW- 2	24-Sep-13	7.21	47	2.5	9.0	ND	ND	16	ND	ND	ND	ND
MW- 2	26-Mar-13	7.23	47	4.9	11	ND	ND	18	ND	6.3	ND	19
MW- 2	19-Sep-12	7.32	49	6.6	14	ND	ND	17	ND	14	2.6	73
MW- 2	27-Mar-12	7.17	48	14	13	ND	ND	15	0.1	9.1	3.7	8
MW- 2	28-Sep-11	6.40	53	27	11	ND	8.0	15	0.1	7.7	2.7	79
MW- 2	28-Mar-11	6.96	53	24	10	ND	ND	23	0.1	13	2.3	63
MW- 2	5-Oct-10	6.87	46	48	9.0	ND	37	21	0.1	19	2.5	53
MW- 2	24-Mar-10	6.28	64	150	11	ND	ND	41	ND	20	2.4	92
MW- 2	28-Sep-09	6.47	97	2800	26	0.4	42	59	ND	24	2.7	3,300
MW- 2	26-Mar-09	5.88	61	2.7	13	ND	ND	24	ND	22	2.5	89
MW- 2	11-Aug-08	5.33	98	3.3	11	ND	ND	16	ND	15	2.6	95
MW- 2	16-Apr-08	4.40	59	2.0	10	0.1	ND	15	ND	15	2.5	83
MW- 2	10-Oct-07	5.20	61	3.0	7.0	ND	ND	15	ND	23	2.9	84
MW- 2	10-Apr-07	5.19	77	ND	7.0	ND	2.8	15	ND	16	2.8	80
MW- 2	25-Oct-06	5.68	78	3.4	6.0	ND	ND	17	ND	18	2.7	69
MW- 2	27-Apr-06	5.44	80	3.5	5.0	ND	ND	16	ND	18	2.6	76
MW- 2	10-Nov-05	7.53	72	3.1	5.0	ND	ND	16	ND	17	2.6	75
MW- 2	6-Apr-05	4.85	73	4.8	10	ND	ND	16	ND	18	2.6	84
MW- 2	13-Oct-04	6.39	76	1.7	6.0	ND	ND	16	ND	18	2.5	67
MW- 2	29-Apr-04	NA*	86	2.2	6.0	ND	ND	16	ND	18	2.7	83
MW- 2	8-Oct-03	6.30	110	ND	8.0	0.3	ND	18	ND	12	4.0	110
MW- 2	23-Apr-03	7.22	76	ND	10	0.5	ND	16	ND	48	5.0	76
MW- 2	8-Oct-02	6.81	84	ND	5.0	0.2	ND	21	ND	33	3.0	20
MW- 2	26-Mar-02	6.05	127	2.0	25	ND	ND	39	ND	4.0	5.0	92

Table 2. General Chemistry Analysis

Location	Date	pH (Field) (SU)	Spec. Cond. (field) (umhos/cm)	Turbidity (NTU)	Alkalinity (mg/l)	Ammonia (mg/l)	COD (mg/l)	Hardness (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	total chloride (mg/l)	TDS (mg/l)
MW- 3	15-Sep-20	5.63	95	3.0	23	ND	5.0J	57	0.045J	21	4.4	95
MW- 3	10-Mar-20	6.19	129	6.4	36	ND	5.0J	55	0.15	21	4.3J	87
MW- 3	16-Sep-19	5.30	134	5.2	28	ND	9.0	48	0.64	22	4.7J	71
MW- 3	19-Mar-19	6.41	113	68	39	ND	13	53	0.049J	17	3.5J	110
MW- 3	7-Oct-18	5.89	149	1.7	28	ND	ND	94	0.5	20	3.8J	92
MW- 3	19-Mar-18	7.89	116	6.4	30	ND	ND	51	0.1	22	ND	96
MW- 3	19-Sep-17	6.28	150	1.4	31	ND	10	55	0.7	22	ND	84
MW- 3	21-Mar-17	6.15	152	1.3	24	ND	7.0	51	0.1	21	5.1	120
MW- 3	20-Sep-16	6.31	159	4.2	33	ND	ND	53	0.1	24	ND	130
MW- 3	16-Mar-16	6.57	89	5.7	29	ND	15	48	ND	25	ND	85
MW- 3	23-Sep-15	5.94	94	6.5	27	ND	ND	55	ND	26	ND	110
MW- 3	24-Mar-15	6.12	101	11	27	ND	ND	56	0.12	21	ND	100
MW- 3	22-Sep-14	6.21	120	5.1	35	ND	6.0	61	ND	18	ND	140
MW- 3	25-Mar-14	6.36	100	5.1	31	ND	ND	50	1.40	18	ND	110
MW- 3	24-Sep-13	7.21	103	1.8	26	ND	5.6	48	ND	14	ND	58
MW- 3	26-Mar-13	7.21	103	3.0	23	ND	ND	52	0.12	23	7.0	58
MW- 3	19-Sep-12	7.27	112	1.9	192	ND	ND	54	ND	32	6.6	98
MW- 3	27-Mar-12	7.17	112	2.8	27	ND	ND	54	0.1	31	7.4	78
MW- 3	28-Sep-11	6.40	121	8.1	27	ND	8.0	56	0.1	27	5.6	130
MW- 3	28-Mar-11	6.93	67	6.4	31	ND	8.0	74	0.1	23	3.8	140
MW- 3	5-Oct-10	6.88	110	14	25	ND	64	59	0.1	28	7.5	81
MW- 3	25-Mar-10	6.36	116	55	38	1.2	12	71	ND	31	4.8	100
MW- 3	28-Sep-09	6.41	117	2.5	25	ND	ND	63	ND	36	6.3	98
MW- 3	26-Mar-09	6.14	117	3.2	25	ND	ND	61	ND	36	7.3	150
MW- 3	11-Aug-08	5.88	176	3.8	29	ND	ND	54	0.1	10	1.3	121
MW- 3	16-Apr-08	6.04	166	2.7	29	ND	ND	56	ND	29	4.6	114
MW- 3	10-Oct-07	5.84	132	3.1	29	ND	ND	51	0.2	36	5.2	126
MW- 3	10-Apr-07	6.09	151	0.5	26	ND	ND	51	0.1	29	4.3	138
MW- 3	25-Oct-06	6.15	151	1.1	28	ND	ND	47	ND	27	4.1	112
MW- 3	27-Apr-06	6.08	151	2.0	27	ND	ND	52	ND	30	4.1	120
MW- 3	10-Nov-05	7.22	191	1.1	26	ND	ND	57	ND	35	4.3	120
MW- 3	6-Apr-05	6.32	163	2.7	32	ND	ND	56	ND	35	3.9	104
MW- 3	13-Oct-04	6.11	173	1.5	31	ND	ND	57	ND	38	3.9	86
MW- 3	29-Apr-04	NA*	189	1.2	30	ND	ND	67	ND	39	3.7	133
MW- 3	8-Oct-03	6.17	195	ND	36	0.3	ND	71	ND	33	5.0	780
MW- 3	23-Apr-03	6.84	176	ND	143	0.4	ND	65	ND	26	6.0	110
MW- 3	8-Oct-02	7.05	121	5.0	26	0.2	ND	37	ND	20	4.0	48
MW- 3	26-Mar-02	6.15	280	ND	75	ND	ND	120	ND	9.0	10	160
MW- 4	24-Sep-13	7.15	243	2.4	124	ND	ND	140	ND	6.2	6.2	200
MW- 4	27-Mar-13	7.49	218	1.4	119	ND	ND	130	ND	12	10	210
MW- 4	19-Sep-12	7.28	254	1.6	129	ND	ND	160	ND	16	8.0	230
MW- 4	27-Mar-12	7.07	213	1.0	130	ND	ND	130	0.1	17	8.4	250
MW- 4	28-Sep-11	6.31	150	6.3	98	0.3	ND	110	0.2	16	10	200
MW- 4	28-Mar-11	6.95	224	1.3	115	ND	ND	140	0.2	15	6.3	220
MW- 4	5-Oct-10	6.88	242	1.4	102	ND	28	120	ND	16	7.1	200
MW- 4	24-Mar-10	7.25	231	1.9	119	ND	ND	140	ND	21	6.6	210
MW- 4	28-Sep-09	7.57	259	0.8	134	ND	ND	160	ND	22	6.0	280
MW- 4	26-Mar-09	7.31	234	1.0	8.8	ND	ND	120	ND	25	10	190
MW- 4	11-Aug-08	6.64	403	2.1	102	ND	ND	143	ND	35	17	257
MW- 4	16-Apr-08	6.67	313	1.8	112	ND	ND	153	ND	33	17	268
MW- 4	10-Oct-07	7.12	232	1.6	100	ND	33	130	0.1	30	10	222
MW- 4	10-Apr-07	6.78	332	0.3	101	ND	ND	130	0.1	37	17	269
MW- 4	25-Oct-06	6.79	338	0.6	94	ND	ND	140	ND	41	17	251
MW- 4	27-Apr-06	6.87	327	2.4	94	ND	ND	140	ND	43	16	263
MW- 4	10-Nov-05	6.54	330	1.4	94	ND	ND	110	ND	32	10	229
MW- 4	6-Apr-05	6.00	339	1.4	92	ND	ND	130	ND	48	17	260
MW- 4	13-Oct-04	6.93	273	0.8	82	ND	ND	110	ND	32	9.2	216
MW- 4	29-Apr-04	NA*	333	1.5	89	ND	ND	140	ND	43	13	278
MW- 4	8-Oct-03	6.79	297	ND	82	0.4	ND	120	ND	38	14	820
MW- 4	23-Apr-03	6.86	314	ND	38	0.4	ND	130	ND	46	73	240
MW- 4	8-Oct-02	6.99	250	ND	92	ND	ND	110	ND	30	5.0	170
MW- 4	26-Mar-02	6.45	318	ND	140	ND	ND	150	ND	8.0	3.0	200
MW- 4A	16-Sep-20	7.50	222	3.5	140	ND	ND	150	ND	5.2	2.8J	190
MW- 4A	10-Mar-20	7.34	322	3.3	160	ND	ND	170	ND	7.9	4.0J	240
MW- 4A	11-Sep-19	7.90	314	2.5	140	ND	ND	150	ND	3.8J	2.2J	200
MW- 4A	20-Mar-19	7.92	240	4.4	160	ND	ND	180	ND	9.1	4.1J	270
MW- 4A	7-Oct-18	6.70	234	1.3	150	ND	ND	66	ND	2.9J	2.6J	220
MW- 4A	19-Mar-18	7.93	254	3.2	160	ND	ND	170	ND	6.1	ND	230
MW- 4A	19-Sep-17	8.85	289	1.2	150	ND	8.0	160	ND	ND	ND	230
MW- 4A	21-Mar-17	7.11	304	5.0	160	ND	ND	150	ND	6.7	ND	330
MW- 4A	20-Sep-16	7.33	307	62	149	ND	ND	170	ND	5.4	ND	220
MW- 4A	16-Mar-16	7.67	200	11	158	ND	10	160	ND	6.4	ND	210
MW- 4A	23-Sep-15	7.60	203	14	156	ND	ND	150	ND	ND	ND	230
MW- 4A	23-Mar-15	7.91	250	29	165	ND	ND	180	ND	ND	5.1	260
MW- 4A	22-Sep-14	7.67	255	13	164	ND	5.0	160	ND	ND	ND	260
MW- 4A	24-Mar-14	7.36	370	30	232	0.2	11	250	5.1	21	16	320

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Location	Date	pH (Field) (SU)	Spec. Cond. (field) (umhos/cm)	Turbidity (NTU)	Alkalinity (mg/l)	Ammonia (mg/l)	COD (mg/l)	Hardness (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	total chloride (mg/l)	TDS (mg/l)
MW- 5	16-Sep-20	6.46	251	0.6	140	ND	ND	150	ND	9.1	1.8J	180
MW- 5	11-Mar-20	7.73	281	0.25J	140	ND	ND	140	ND	8.3	1.7J	210
MW- 5	11-Sep-19	7.90	314	2.5	140	ND	6.0	160	0.086J	8.8	1.9J	190
MW- 5	19-Mar-19	8.33	211	2.6	140	ND	6.0	130	0.086J	8.3	1.9J	210
MW- 5	8-Oct-18	7.07	248	2.8	130	ND	ND	130	0.2	7.2	1.9J	210
MW- 5	20-Mar-18	7.64	268	4.6	130	ND	ND	140	ND	7.6	ND	210
MW- 5	20-Sep-17	8.55	280	1.0	140	ND	ND	150	0.1	6.7	ND	210
MW- 5	22-Mar-17	7.61	267	0.9	140	ND	ND	140	ND	8.4	ND	240
MW- 5	21-Sep-16	7.59	278	0.5	127	ND	ND	140	ND	8.1	ND	250
MW- 5	16-Mar-16	6.84	101	1.5	139	ND	12	140	ND	8.1	ND	180
MW- 5	23-Sep-15	7.77	199	1.3	140	ND	ND	130	ND	8.2	ND	220
MW- 5	24-Mar-15	7.83	200	1.2	131	ND	ND	140	ND	5.2	ND	170
MW- 5	22-Sep-14	7.92	219	1.1	133	ND	ND	140	ND	6.3	ND	250
MW- 5	25-Mar-14	7.95	199	0.8	134	ND	ND	150	3.5	ND	ND	230
MW- 5	25-Sep-13	7.20	216	0.7	133	ND	ND	140	ND	ND	ND	200
MW- 5	27-Mar-13	7.20	271	0.6	137	ND	ND	150	ND	6.2	ND	220
MW- 5	19-Sep-12	7.34	217	0.7	135	ND	ND	150	ND	7.4	2.4	220
MW- 5	27-Mar-12	7.12	214	0.8	137	ND	ND	130	0.1	11	3.1	220
MW- 5	28-Sep-11	6.33	227	1.2	148	0.4	ND	140	0.1	7.3	2.6	210
MW- 5	28-Mar-11	6.95	208	15	136	ND	5.0	140	0.1	10	1.4	190
MW- 5	5-Oct-10	6.89	232	1.1	141	ND	33	140	0.1	11	1.7	210
MW- 5	25-Mar-10	7.43	216	1.4	144	ND	ND	150	ND	14	1.5	220
MW- 5	28-Sep-09	7.36	230	0.8	150	ND	ND	220	ND	16	1.7	280
MW- 5	25-Mar-09	7.77	237	ND	142	ND	ND	160	ND	15	1.7	ND
MW- 5	11-Aug-08	6.98	326	6.5	145	ND	ND	144	ND	14	1.5	213
MW- 5	16-Apr-08	6.94	278	5.7	152	ND	ND	142	ND	11	1.7	214
MW- 5	10-Oct-07	6.92	288	2.3	142	ND	ND	140	ND	14	1.8	220
MW- 5	10-Apr-07	7.80	148	0.2	137	ND	ND	130	0.1	13	1.7	223
MW- 5	25-Oct-06	7.30	310	0.9	139	ND	ND	150	ND	12	1.5	210
MW- 5	27-Apr-06	7.01	310	1.2	141	ND	ND	140	ND	13	1.5	217
MW- 5	10-Nov-05	6.38	295	1.1	134	ND	ND	140	ND	15	1.5	222
MW- 5	6-Apr-05	6.80	293	1.2	136	ND	ND	130	ND	12	1.5	230
MW- 5	13-Oct-04	6.12	318	1.1	139	ND	ND	130	ND	11	1.5	208
MW- 5	29-Apr-04	6.83	312	0.9	142	ND	ND	140	ND	13	1.4	235
MW- 5	8-Oct-03	5.80	311	ND	140	0.2	ND	140	ND	10	4.0	680
MW- 5	23-Apr-03	6.15	200	ND	140	0.3	ND	140	ND	3.0	210	
MW- 5	8-Oct-02	7.07	312	ND	140	ND	ND	140	ND	32	3.0	180
MW- 5	26-Mar-02	6.90	248	ND	18	ND	ND	76	ND	84	19	160
MW- 6	16-Sep-20	5.94	483	140	210	0.5	18	270	ND	58	8.6	380
MW- 6	11-Mar-20	6.31	569	48	160	0.4	12	250	ND	83	13	360
MW- 6	16-Sep-19	5.48	497	190	180	0.2	19	220	ND	53	26	370
MW- 6	19-Mar-19	6.70	480	180	170	0.5	9	220	ND	50	23	430
MW- 6	8-Oct-18	6.70	524	230	200	0.9	23	210	ND	47	24	370
MW- 6	20-Mar-18	6.50	655	74	95	0.2	22	360	ND	39	74	240
MW- 6	20-Sep-17	6.19	747	610	270	0.4	16	370	0.2	79	7.3	460
MW- 6	22-Mar-17	6.46	658	73	260	0.2	12	430	ND	110	8.0	480
MW- 6	21-Sep-16	6.63	780	69	256	0.4	20	330	ND	77	9.1	540
MW- 6	16-Mar-16	9.36	557	79	255	0.1	24	350	0.1	130	8.2	450
MW- 6	23-Sep-15	6.53	481	5.9	156	ND	11	220	ND	69	13	370
MW- 6	24-Mar-15	6.49	359	50	155	ND	13	230	ND	72	14	360
MW- 6	22-Sep-14	6.17	279	3.1	96	ND	7.0	130	ND	38	14	290
MW- 6	25-Mar-14	6.50	248	8.6	58	ND	ND	130	2.5	54	16	250
MW- 6	25-Sep-13	7.20	258	5.9	168	ND	ND	130	ND	32	15	230
MW- 6	27-Mar-13	7.18	208	5.1	26	ND	ND	90	ND	56	25	200
MW- 6	19-Sep-12	7.36	230	230	172	ND	ND	210	ND	26	7.6	240
MW- 6	27-Mar-12	7.09	185	8.4	35	ND	ND	75	0.1	54	17	89
MW- 6	28-Sep-11	6.24	165	830	172	0.8	18	210	0.1	26	8.2	270
MW- 6	28-Mar-11	6.92	157	8.3	30	ND	5.0	82	0.2	39	12	330
MW- 6	5-Oct-10	6.89	226	14	12	ND	46	91	ND	50	7.2	110
MW- 6	25-Mar-10	6.06	151	22	101	ND	17	140	ND	48	10	220
MW- 6	28-Sep-09	6.61	301	10	33	ND	ND	91	ND	59	14	220
MW- 6	25-Mar-09	6.49	227	250	120	ND	ND	150	ND	46	12	7.0
MW- 6	11-Aug-08	6.06	398	4.6	44	ND	ND	155	ND	44	14	270
MW- 6	16-Apr-08	5.47	271	7.2	45	ND	ND	97	ND	55	19	171
MW- 6	10-Oct-07	7.10	316	25	170	ND	66	200	0.1	31	7.1	299
MW- 6	10-Apr-07	6.80	249	ND	48	ND	ND	94	0.1	46	13	191
MW- 6	25-Oct-06	5.98	228	2.1	25	ND	ND	57	ND	44	15	145
MW- 6	27-Apr-06	5.50	194	0.7	12	ND	ND	62	ND	49	12	130
MW- 6	10-Nov-05	6.34	231	1.9	32	ND	ND	66	ND	51	14	161
MW- 6	6-Apr-05	7.00	170	2.6	14	ND	ND	52	ND	42	6.7	129
MW- 6	13-Oct-04	6.23	228	1.2	41	ND	ND	72	ND	52	11	141
MW- 6	29-Apr-04	6.73	212	ND	22	ND	ND	76	ND	38	7.9	169
MW- 6	8-Oct-03	5.71	237	ND	38	0.2	ND	92	ND	35	12	560
MW- 6	23-Apr-03	6.36	276	11	46	0.3	ND	86	ND	74	13	170
MW- 6	8-Oct-02	6.93	408	11	150	0.3	ND	190	ND	46	10	260
MW- 6	26-Mar-02	5.84	114	2.0	ND	ND	ND	10	ND	4.0	4.0	5.0

Table 2. General Chemistry Analysis

Location	Date	pH (Field) (SU)	Spec. Cond. (field) (umhos/cm)	Turbidity (NTU)	Alkalinity (mg/l)	Ammonia (mg/l)	COD (mg/l)	Hardness (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	total chloride (mg/l)	TDS (mg/l)
MW- 7	15-Sep-20	4.47	52	0.9	ND	ND	ND	12	ND	17	2.9J	47
MW- 7	10-Mar-20	4.38	55	2.0	ND	ND	ND	15	ND	14	2.7J	66
MW- 7	10-Sep-19	3.87	91	7.7	ND	ND	ND	21	ND	23	6.2	44
MW- 7	20-Mar-19	4.66	45	3.6	ND	ND	5.0	14	ND	15	2.8J	42
MW- 7	8-Oct-18	4.36	57	7.1	ND	ND	ND	11	ND	18	4.0J	34
MW- 7	23-Mar-18	4.65	38	3.1	ND	ND	ND	10	ND	12	ND	51
MW- 7	18-Sep-17	4.80	80	4.8	ND	0.2	ND	13	ND	13	6.9	72
MW- 7	22-Mar-17	4.96	55	4.9	ND	ND	ND	12	ND	10	ND	85
MW- 7	20-Sep-16	4.14	72	29	2.2	ND	ND	12	ND	15	7.5	41
MW- 7	15-Mar-16	4.75	30	2.2	2.1	ND	ND	10	ND	13	ND	29
MW- 7	22-Sep-15	5.03	46	150	8.8	ND	8.0	12	ND	7.4	5.9	45
MW- 7	23-Mar-15	4.98	29	2.2	1.7	ND	5.0	10	ND	11	ND	64
MW- 7	22-Sep-14	4.48	55	17	1.1	ND	ND	13	ND	10	6.8	40
MW- 7	24-Mar-14	4.91	31	1.4	1.5	ND	ND	9.4	0.3	5.2	ND	24
MW- 7	24-Sep-13	7.17	51	17	3.0	ND	ND	13	ND	15	6.7	41
MW- 7	26-Mar-13	7.23	32	2.1	3.0	ND	ND	9.0	ND	15	ND	ND
MW- 7	19-Sep-12	7.61	43	560	ND	ND	20	18	ND	11	6.8	20
MW- 7	27-Mar-12	7.15	8	0.8	3.0	ND	ND	10	ND	14	5.4	ND
MW- 7	28-Sep-11	6.45	41	1.3	2.0	ND	ND	9.0	0.1	12	3.4	35
MW- 7	28-Mar-11	6.97	22	0.9	3.0	ND	ND	10	ND	42	2.7	19
MW- 7	5-Oct-10	6.88	47	4.8	1.0	ND	9.0	11	ND	12	6.6	12
MW- 7	24-Mar-10	4.29	35	0.8	33	0.7	ND	12	ND	20	3.9	41
MW- 7	28-Sep-09	4.57	26	0.7	1.8	ND	ND	13	ND	16	9.3	77
MW- 7	26-Mar-09	4.75	23	2.1	ND	ND	ND	11	ND	14	4.3	49
MW- 7	11-Aug-08	5.22	112	2.8	ND	ND	ND	13	ND	10	8.2	52
MW- 7	16-Apr-08	4.49	57	1.6	ND	ND	ND	10	ND	10	5.1	54
MW- 7	10-Oct-07	4.17	76	5.7	1.0	ND	ND	9.0	0.1	21	5.0	22
MW- 7	10-Apr-07	5.18	60	ND	2.0	ND	ND	12	ND	12	3.6	49
MW- 7	25-Oct-06	4.98	63	8.1	ND	ND	ND	10	ND	13	4.0	26
MW- 7	27-Apr-06	4.70	121	2.2	ND	ND	ND	11	ND	11	2.7	89
MW- 7	10-Nov-05	6.70	66	13	ND	ND	ND	10	ND	11	4.0	39
MW- 7	6-Apr-05	5.77	69	1.3	ND	ND	ND	11	ND	10	2.7	ND
MW- 7	13-Oct-04	6.47	58	4.2	33	ND	ND	8.2	ND	10	3.9	21
MW- 7	29-Apr-04	5.89	123	2.8	ND	ND	ND	10	ND	15	2.7	40
MW- 7	8-Oct-03	5.33	111	4.0	ND	0.3	ND	11	ND	18	4.0	380
MW- 7	23-Apr-03	7.90	53	ND	5.0	0.4	ND	11	ND	19	4.0	32
MW- 7	8-Oct-02	5.77	63	ND	0.1	ND	ND	10	ND	20	6.0	299
MW- 7	26-Mar-02	5.75	133	12	32	ND	ND	50	6.1	4.0	10	40
MW- 8	15-Sep-20	5.77	158	8.4	66	ND	8.0	20	ND	15	7.6	170
MW- 8	10-Mar-20	6.15	261	350	96	ND	28	36	ND	12	5.8	65
MW- 8	10-Sep-19	5.43	245	350	96	ND	12	27	ND	7.6	10	90
MW- 8	20-Mar-19	6.41	231	4.4	ND	ND	85	21	0.56	17	77	190
MW- 8	8-Oct-18	5.88	229	230	95	ND	12	24	ND	13	9.0	120
MW- 8	23-Mar-18	5.86	223	110	84	ND	14	79	ND	25	6.9	130
MW- 8	18-Sep-17	6.52	209	94	79	0.3	11	20	ND	9.0	10	110
MW- 8	22-Mar-17	6.16	233	140	90	ND	7.0	110	ND	16	11	200
MW- 8	20-Sep-16	5.00	230	140	77	1.7	27	21	ND	ND	18	360
MW- 8	15-Mar-16	6.51	150	480	49	0.2	19	31	ND	13	6.9	69
MW- 8	22-Sep-15	6.14	146	130	54	ND	15	21	ND	11	6.0	92
MW- 8	23-Mar-15	6.60	181	140	55	ND	8.0	81	ND	13	5.5	150
MW- 8	22-Sep-14	6.09	146	3.9	48	ND	ND	18	ND	11	8.0	80
MW- 8	24-Mar-14	6.19	191	29	82	ND	15	27	1.1	13	10	130
MW- 8	24-Sep-13	7.15	198	10	61	ND	17	22	ND	12	10	92
MW- 8	26-Mar-13	7.23	266	19	43	ND	15	29	ND	7.2	11	100
MW- 8	19-Sep-12	7.51	108	41	38	0.2	ND	16	ND	10	6.1	79
MW- 8	27-Mar-12	7.23	117	1.8	33	ND	14	ND	14	8.6	56	
MW- 8	28-Sep-11	6.50	135	16	60	ND	9.0	20	0.1	10	10	93
MW- 8	28-Mar-11	6.93	180	23	47	ND	15	30	0.4	17	11	68
MW- 8	5-Oct-10	6.87	110	61	44	ND	22	14	ND	6.6	4.6	35
MW- 8	24-Mar-10	5.89	157	92	2.0	ND	11	25	ND	16	11	58
MW- 8	28-Sep-09	5.46	105	3.2	5.0	ND	ND	15	ND	16	7.4	97
MW- 8	26-Mar-09	5.82	134	5.7	54	0.2	ND	17	ND	14	11	120
MW- 8	11-Aug-08	5.49	148	10	36	ND	16	16	ND	17	6.9	84
MW- 8	16-Apr-08	5.14	139	13	ND	ND	28	16	0.1	18	9.0	85
MW- 8	10-Oct-07	4.86	132	71	12	ND	ND	14	ND	17	6.9	54
MW- 8	10-Apr-07	6.20	177	3.4	58	0.4	ND	17	ND	14	6.6	73
MW- 8	25-Oct-06	5.86	171	14	59	0.3	ND	17	ND	13	13	60
MW- 8	27-Apr-06	5.80	187	13	23	0.4	ND	20	ND	14	14	44
MW- 8	10-Nov-05	6.74	117	15	9.0	ND	ND	16	ND	15	15	42
MW- 8	6-Apr-05	6.89	215	7.2	80	0.8	ND	19	ND	14	14	37
MW- 8	13-Oct-04	6.10	144	4.8	42	0.2	ND	17	4.3	14	8.6	67
MW- 8	29-Apr-04	6.06	219	6.9	11	0.3	ND	22	ND	13	6.6	64
MW- 8	8-Oct-03	5.77	266	290	23	0.3	32	31	ND	15	12	600
MW- 8	23-Apr-03	6.88	286	47	38	0.6	78	28	ND	ND	14	150
MW- 8	8-Oct-02	6.66	107	4.0	5.0	0.1	ND	12	ND	18	12	4.0

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Location	Date	pH (Field) (SU)	Spec. Cond. (field) (umhos/cm)	Turbidity (NTU)	Alkalinity (mg/l)	Ammonia (mg/l)	COD (mg/l)	Hardness (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	total chloride (mg/l)	TDS (mg/l)
MW- 9	15-Sep-20	5.82	184	2.5	88	0.2	22	58	ND	10	2.3J	130
MW- 9	10-Mar-20	4.86	73	3.2	14	ND	6.0	21	0.1	13	3.8J	25
MW- 9	10-Sep-19	5.24	125	77	41	0.4	6.0	26	ND	6.2	3.0J	37
MW- 9	20-Mar-19	6.11	136	260	75	0.4	8.0	52	ND	11	2.0J	93
MW- 9	8-Oct-18	5.48	175	11	84	0.6	16	56	ND	9.4	3.4J	97
MW- 9	23-Mar-18	5.18	64	5.8	13	0.3	5.0	23	0.8	9.0	ND	67
MW- 9	18-Sep-17	5.82	144	40	65	1.7	68	35	ND	ND	ND	99
MW- 9	22-Mar-17	5.32	109	13	24	0.2	10	30	ND	14	ND	160
MW- 9	20-Sep-16	5.59	151	1.8	45	0.3	12	36	ND	10	ND	59
MW- 9	15-Mar-16	6.28	113	4.8	60	0.4	25	48	ND	10	5.7	91
MW- 9	22-Sep-15	5.71	82	0.9	28	ND	9.0	32	ND	7.2	ND	64
MW- 9	23-Mar-15	5.73	83	1.5	27	ND	9.0	40	ND	16	5.7	110
MW- 9	22-Sep-14	5.56	84	1.3	16	ND	ND	36	ND	11	ND	62
MW- 9	24-Mar-14	5.27	98	0.9	7.1	ND	ND	54	0.7	41	ND	65
MW- 9	24-Sep-13	7.20	17	0.7	12	ND	ND	15	0.4	ND	ND	23
MW- 9	26-Mar-13	7.24	46	0.7	12	ND	ND	21	0.4	6.5	ND	17
MW- 9	19-Sep-12	7.37	52	1.3	14	ND	ND	22	0.2	6.0	5.2	33
MW- 9	27-Mar-12	7.19	48	0.4	15	ND	ND	19	0.4	7.5	4.1	20
MW- 9	28-Sep-11	6.48	77	0.5	16	ND	ND	28	0.4	11	6.9	78
MW- 9	28-Mar-11	6.94	49	0.4	15	ND	ND	22	0.5	12	3.2	26
MW- 9	5-Oct-10	6.89	77	0.5	24	ND	9.0	33	0.3	4.8	6.9	49
MW- 9	24-Mar-10	5.74	65	0.7	27	ND	ND	34	0.4	11	3.9	100
MW- 9	28-Sep-09	6.00	105	0.7	44	ND	ND	49	0.9	9.0	5.4	120
MW- 9	26-Mar-09	6.09	180	8.5	64	ND	ND	82	2.5	16	11	180
MW- 9	11-Aug-08	5.75	122	1.2	33	ND	ND	41	2.2	6.7	6.7	67
MW- 9	16-Apr-08	5.17	177	1.9	41	ND	ND	51	3.0	26	16	122
MW- 9	10-Oct-07	5.22	119	2.6	23	ND	ND	35	0.7	7.5	11	62
MW- 9	10-Apr-07	5.99	119	2.0	23	ND	ND	38	1.2	9.2	11	78
MW- 9	25-Oct-06	5.72	91	3.6	24	ND	ND	1.5	6.5	2.7	46	
MW- 9	27-Apr-06	5.82	134	0.6	36	ND	ND	43	1.3	10	5.1	54
MW- 9	10-Nov-05	7.00	173	1.4	40	ND	ND	53	2.2	10	11	88
MW- 9	6-Apr-05	7.00	131	3.3	29	ND	ND	35	1.2	9.3	5.0	63
MW- 9	13-Oct-04	6.11	143	3.5	47	ND	ND	47	0.7	6.6	5.9	71
MW- 9	29-Apr-04	6.85	197	0.8	54	ND	ND	66	1.0	16	5.3	90
MW- 9	8-Oct-03	7.22	175	ND	56	0.2	ND	68	0.8	18	5.0	540
MW- 9	23-Apr-03	6.70	492	2.0	170	2.2	18	180	0.2	62	18	270
MW- 9	8-Oct-02	6.53	89	15	20	0.1	ND	32	2.2	24	6.0	28
MW- 9	26-Mar-02	5.87	424	25	ND	ND	ND	43	1.4	22	110	240
MW-10R	15-Sep-20	4.35	156	0.3	ND	ND	9.0	12	0.7	24	37	210
MW-10R	10-Mar-20	4.15	496	0.6	ND	ND	8.0	41	0.8	18	130	250
MW-10R	16-Sep-19	3.76	189	0.8	ND	ND	7.0	17	0.4	15	41	89
MW-10R	20-Mar-19	4.55	266	290	97	ND	21	57	ND	15	8.5	97
MW-10R	8-Oct-18	4.22	278	5.9	ND	ND	ND	18	0.7	24	82	160
MW-10R	23-Mar-18	4.35	277	98	ND	ND	5.0	22	2.7	20	83	210
MW-10R	18-Sep-17	4.52	596	250	ND	ND	ND	33	1.7	17	160	310
MW-10R	22-Mar-17	4.21	419	110	ND	ND	ND	39	2.6	19	110	350
MW-10R	20-Sep-16	4.43	273	1.2	ND	ND	ND	22	1.7	21	59	140
MW-10R	15-Mar-16	4.61	477	12	ND	ND	15	40	1.6	22	180	300
MW-10R	22-Sep-15	4.37	203	0.5	ND	ND	7.0	23	0.5	17	61	140
MW-10R	23-Mar-15	4.49	451	5.9	ND	ND	6.0	46	1.2	26	170	340
MW-10R	22-Sep-14	4.49	182	0.5	ND	ND	ND	18	0.6	29	50	95
MW-10R	24-Mar-14	4.59	254	1.2	ND	ND	ND	20	1.1	22	79	96
MW-10R	24-Sep-13	7.21	190	0.8	1.0	ND	ND	19	0.8	20	50	120
MW-10R	26-Mar-13	7.54	459	1.7	ND	ND	ND	31	1.6	31	160	300
MW-10R	19-Sep-12	7.41	362	3.5	ND	ND	ND	41	0.4	32	120	190
MW-10R	27-Mar-12	7.17	340	3.3	1.0	ND	ND	36	0.4	23	120	170
MW-10R	28-Sep-11	6.47	316	1.5	ND	ND	9.0	24	1.1	30	100	210
MW-10R	28-Mar-11	6.94	448	0.3	ND	ND	7.0	40	1.9	45	160	280
MW-10R	5-Oct-10	6.88	248	1.1	ND	ND	21	25	0.4	29	72	130
MW-10R	24-Mar-10	4.41	412	1.5	ND	ND	ND	32	1.1	36	160	300
MW-10R	28-Sep-09	4.31	574	1.8	ND	0.5	ND	43	1.0	30	200	330
MW-10R	26-Mar-09	4.41	351	100	ND	0.2	ND	43	0.6	24	130	250
MW-10R	11-Aug-08	4.69	506	11	ND	ND	ND	36	1.3	23	117	382
MW-10R	16-Apr-08	4.08	849	25	ND	ND	ND	41	0.4	19	203	453
MW-10R	10-Oct-07	4.90	463	3.9	ND	ND	ND	19	0.2	40	81	181
MW-10R	10-Apr-07	4.78	828	7.4	ND	ND	ND	41	0.5	26	210	448
MW-10R	25-Oct-06	4.60	916	24	ND	ND	ND	25	0.5	26	261	445
MW-10R	27-Apr-06	4.24	1,610	10	ND	ND	31	84	0.6	25	430	801
MW-10R	10-Nov-05	6.78	1,537	27.3	ND	ND	23	84	1.0	26	456	834
MW-10R	6-Apr-05	6.06	932	2.5	ND	ND	ND	56	0.3	24	277	213
MW-10R	13-Oct-04	5.47	1,194	7.5	ND	ND	ND	50	0.5	18	339	557
MW-10R	29-Apr-04	N/A	911	3.2	ND	ND	36	58	0.4	36	237	486
MW-10R	8-Oct-03	6.36	468	5.0	ND	0.2	ND	28	0.8	46	120	1,200
MW-10R	23-Apr-03	6.47	462	3.0	3.0	0.3	ND	31	1.1	32	120	220
MW-10R	8-Oct-02	5.00	481	27	ND	0.1	ND	44	1.8	37	110	220

Table 2. General Chemistry Analysis

Location	Date	pH (Field) (SU)	Spec. Cond. (field) (umhos/cm)	Turbidity (NTU)	Alkalinity (mg/l)	Ammonia (mg/l)	COD (mg/l)	Hardness (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	total chloride (mg/l)	TDS (mg/l)
MW-11R	15-Sep-20	5.35	383	1.7	80	ND	46	22	0.4	35	89	360
MW-11R	10-Mar-20	5.11	444	18	23	ND	22	45	ND	23	52	200
MW-11R	12-Sep-19	4.41	399	22	30	ND	30	31	0.2	36	84	260
MW-11R	19-Mar-19	5.23	409	29	26	ND	39	30	0.3	45	93	360
MW-11R	7-Oct-18	5.42	355	440	25	ND	31	35	ND	31	71	250
MW-11R	20-Mar-18	5.63	234	45	21	ND	24	42	0.3	39	74	240
MW-11R	18-Sep-17	5.08	293	8.9	22	ND	14	42	ND	29	55	250
MW-11R	21-Mar-17	5.26	304	320	19	ND	29	52	0.1	39	61	230
MW-11R	21-Sep-16	5.22	361	290	20	ND	19	44	ND	26	46	200
MW-11R	15-Mar-16	5.40	259	19	16	0.1	24	47	ND	32	57	190
MW-11R	22-Sep-15	5.35	109	28	19	ND	20	45	ND	30	49	220
MW-11R	23-Mar-15	5.28	265	27	12	ND	25	45	0.3	56	75	300
MW-11R	22-Sep-14	5.26	317	21	17	ND	12	48	ND	25	55	200
MW-11R	24-Mar-14	5.12	266	130	11	ND	12	45	0.7	26	50	84
MW-11R	24-Sep-13	7.18	292	7.0	21	ND	15	41	ND	17	45	190
MW-11R	26-Mar-13	7.24	330	61	19	ND	10	53	ND	31	62	220
MW-11R	19-Sep-12	7.31	336	28	22	0.1	16	48	ND	28	59	220
MW-11R	27-Mar-12	7.18	350	49	15	ND	15	49	0.2	1.1	93	260
MW-11R	28-Sep-11	6.46	380	130	17	ND	43	56	0.1	33	68	240
MW-11R	28-Mar-11	6.96	319	55	9.0	ND	25	58	0.4	60	89	260
MW-11R	5-Oct-10	6.89	371	140	22	ND	28	62	ND	37	65	240
MW-11R	24-Mar-10	4.93	334	61	8.0	ND	ND	67	0.2	64	87	300
MW-11R	28-Sep-09	5.12	371	75	12	ND	15	64	ND	50	61	210
MW-11R	25-Mar-09	5.16	371	460	7.5	0.3	67	74	ND	55	68	360
MW-11R	11-Aug-08	4.77	555	16	10	ND	32	70	ND	69	113	327
MW-11R	16-Apr-08	4.29	480	16	12	0.1	31	81	ND	79	100	308
MW-11R	10-Oct-07	4.35	468	270	6.0	ND	82	87	ND	91	97	365
MW-11R	10-Apr-07	5.04	547	120	13	ND	23	91	0.2	ND	96	384
MW-11R	25-Oct-06	4.71	526	69	2.0	ND	30	90	1.0	ND	93	363
MW-11R	27-Apr-06	4.98	528	43	ND	ND	55	110	1.0	ND	89	364
MW-11R	10-Nov-05	6.33	554	180	ND	ND	44	110	1.0	ND	106	362
MW-11R	6-Apr-05	5.96	779	79	ND	ND	37	130	1.0	ND	10	448
MW-11R	13-Oct-04	5.59	525	8.5	ND	ND	ND	110	ND	78	21	331
MW-11R	29-Apr-04	N/A	595	8.7	ND	ND	31	160	ND	105	106	69
MW-12R	15-Sep-20	6.38	871	400	370	6.7	80	300	ND	ND	67	490
MW-12R	10-Mar-20	5.68	538	9.1	150	2.2	24	200	1.5	68	31	270
MW-12R	12-Sep-19	6.09	991	410	360	6.6	76	260	0.5	ND	71	460
MW-12R	20-Mar-19	6.73	895	370	380	4.9	77	300	ND	18	81	560
MW-12R	7-Oct-18	6.09	803	110	360	3.4	49	210	ND	ND	65	450
MW-12R	23-Mar-18	5.31	510	4.3	260	2.8	27	230	ND	29	44	360
MW-12R	20-Sep-17	6.29	934	320	320	4.7	56	240	ND	ND	63	760
MW-12R	21-Mar-17	6.31	931	190	360	5.5	54	260	ND	15	65	500
MW-12R	20-Sep-16	6.60	943	230	598	5.2	59	230	ND	ND	63	390
MW-12R	15-Mar-16	5.86	262	48	144	0.7	19	160	0.3	44	27	240
MW-12R	22-Sep-15	6.43	161	130	290	ND	44	210	ND	9.2	53	380
MW-12R	23-Mar-15	6.59	604	42	307	5.3	39	270	0.3	51	46	510
MW-12R	22-Sep-14	6.61	831	260	316	7.5	60	250	ND	ND	66	490
MW-12R	24-Mar-14	6.16	390	6.8	220	0.9	26	220	6.5	31	44	300
MW-12R	24-Sep-13	7.16	1,024	220	471	12	76	370	ND	ND	89	620
MW-12R	26-Mar-13	7.18	984	82	570	10	66	490	ND	ND	99	730
MW-12R	19-Sep-12	7.32	1,165	320	583	13	90	510	ND	7.0	86	700
MW-12R	27-Mar-12	7.15	996	200	606	13	71	490	0.4	ND	88	790
MW-12R	28-Sep-11	6.35	364	4.0	105	ND	16	150	0.1	46	32	250
MW-12R	28-Mar-11	6.95	314	19	217	0.8	14	180	0.9	15	23	270
MW-12R	5-Oct-10	6.89	632	5.4	231	3.3	47	160	3.5	11	24	280
MW-12R	24-Mar-10	6.82	1,177	13	748	14.6	81	870	ND	29	110	920
MW-12R	28-Sep-09	6.88	1,408	340	855	18.6	110	600	13.0	10	130	1,000
MW-12R	25-Mar-09	7.17	1,463	280	960	18.0	126	730	ND	10	130	1,100
MW-12R	11-Aug-08	6.59	2,020	15	937	20.9	123	695	2.1	12	137	1,160
MW-12R	16-Apr-08	6.60	2,150	3.3	832	5.7	84	653	2.1	24	90	1,080
MW-12R	10-Oct-07	6.42	1,176	100	592	4.2	15	4,300	1.4	18	100	835
MW-12R	10-Apr-07	6.43	1,738	10	790	17.7	112	550	0.4	6.3	100	1,020
MW-12R	25-Oct-06	6.22	1,690	44	704	ND	80	52	1.8	9.4	108	965
MW-12R	27-Apr-06	6.59	1,932	29	850	ND	127	660	8.7	12	128	1,130
MW-12R	10-Nov-05	5.89	1,364	135	558	ND	104	400	0.7	10	98	756
MW-12R	6-Apr-05	5.96	779	7.1	325	ND	48	220	ND	11	62	427
MW-12R	13-Oct-04	6.25	1,252	59	534	11.8	79	330	0.3	10	93	704
MW-12R	29-Apr-04	6.59	1,318	36	564	5.7	79	370	ND	11	72	729
MW-12R	8-Oct-03	6.48	1,643	85	670	18.0	120	510	2.1	50	120	1,300
MW-12R	23-Apr-03	6.06	2,310	19	1,000	19.0	240	760	ND	86	170	1,500
MW-12R	8-Oct-02	6.02	797	52	300	4.9	55	250	1.6	30	76	480

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Location	Date	pH (Field) (SU)	Spec. Cond. (field) (umhos/cm)	Turbidity (NTU)	Alkalinity (mg/l)	Ammonia (mg/l)	COD (mg/l)	Hardness (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	total chloride (mg/l)	TDS (mg/l)
MW-13	16-Sep-20	6.57	1,038	0.9	330	ND	ND	830	ND	440	14	1,000
MW-13	11-Mar-20	6.59	1,510	5.3	340	ND	6.0	840	ND	530	10	1,200
MW-13	11-Sep-19	6.25	1,160	6.0	340	ND	11	760	ND	430	13	1,000
MW-13	19-Mar-19	7.02	1,203	7.9	350	ND	7.0	1,100	ND	470	13	1,000
MW-13	8-Oct-18	6.43	1,190	4.2	340	ND	ND	750	ND	500	10	1,100
MW-13	19-Mar-18	6.90	1,218	5.2	340	ND	7.0	1,000	ND	600	5.8	1,400
MW-13	19-Sep-17	6.18	1,520	3.2	320	ND	6.0	980	ND	600	8.0	1,200
MW-13	21-Mar-17	6.65	1,556	2.5	330	ND	ND	1,400	ND	700	6.5	1,400
MW-13	20-Sep-16	6.94	1,640	6.5	294	ND	ND	1,000	ND	630	8.6	1,400
MW-13	16-Mar-16	6.40	959	15	175	ND	14	1,200	ND	920	7.0	1,600
MW-13	23-Sep-15	6.99	746	22	159	ND	ND	810	ND	470	8.5	1,200
MW-13	24-Mar-15	6.79	1,275	4.1	315	ND	7.0	1,000	ND	720	8.8	1,500
MW-13	22-Sep-14	7.00	761	93	157	ND	8.0	550	ND	230	8.9	730
MW-13	24-Mar-14	6.80	864	7.0	1,180	ND	15	570	6.2	330	10	800
Stream-3	16-Sep-20	7.74	113	10	14	ND	13	38	0.2	16	15	80
Stream-3	11-Mar-20	7.75	214	4.3	16	ND	10	55	0.3	33	25	140
Stream-3	10-Sep-19	7.36	362	2.6	17	ND	8	64	1.6	39	52	160
Stream-3	19-Mar-19	8.38	145	5.7	15	ND	9.0	37	0.2	23	20	110
Stream-3	8-Oct-18	7.42	244	7.0	24	0.17	17	42	58	26	29	140
Stream-3	19-Mar-18	7.22	1	7.0	21	ND	9.0	49	0.2	29	33	140
Stream-3	19-Sep-17	7.65	376	5.2	37	ND	18	88	0.3	58	48	190
Stream-3	21-Mar-17	7.76	300	11	25	ND	14	77	0.2	57	38	220
Stream-3	21-Sep-16	6.35	593	4.0	42	ND	6.0	120	ND	94	93	360
Stream-3	16-Mar-16	5.82	195	7.3	19	ND	22	63	0.1	52	43	160
Stream-3	23-Sep-15	7.05	208	3.3	35	ND	10	940	ND	1,000	380	2,200
Stream-3	24-Mar-15	6.15	171	6.5	15	ND	7.0	62	0.14	45	39	160
Stream-3	22-Sep-14	7.12	491	7.4	21	ND	15	140	ND	110	90	410
Stream-3	25-Mar-14	7.65	157	6.3	17	0.1	ND	65	ND	45	36	190
Stream-3	25-Sep-13	7.45	556	8.3	31	ND	16	150	ND	140	100	410
Stream-3	27-Mar-13	7.24	275	8.2	16	ND	13	59	0.12	39	46	180
Stream-3	19-Sep-12	7.32	535	15	36	0.1	ND	140	ND	128	100	390
Stream-3	27-Mar-12	7.19	1,631	17	72	0.1	12	700	0.2	800	310	1,600
Stream-3	28-Sep-11	6.31	703	19	38	0.4	23	210	0.1	200	99	460
Stream-3	28-Mar-11	6.97	175	5.5	23	ND	16	63	0.2	38	37	150
Stream-3	5-Oct-10	6.88	1,230	16	7	ND	6.0	400	0.1	470	210	1,000
Stream-3	25-Mar-10	7.33	164	9.3	31	ND	ND	56	0.2	36	31	140
Stream-3	28-Sep-09	7.21	328	9.0	32	ND	ND	94	ND	81	65	280
Stream-3	26-Mar-09	7.45	242	8.5	30	ND	ND	87	ND	63	49	230
Stream-3	11-Aug-08	6.14	551	14	32	ND	15	109	ND	96	88	338
Stream-3	16-Apr-08	6.89	364,000	16	31	ND	24	81	ND	57	47	226
Stream-3	11-Oct-07	6.52	2,207	3.3	20	ND	ND	7,200	ND	890	390	1,980
Stream-3	10-Apr-07	7.30	156	1.9	32	ND	ND	65	0.3	43	42	213
Stream-3	25-Oct-06	6.91	502	12	41	ND	ND	99	ND	82	65	296
Stream-3	27-Apr-06	6.99	326	14	27	ND	29	73	ND	55	44	196
Stream-3	10-Nov-05	6.94	486	9.1	24	ND	ND	100	ND	82	75	317
Stream-3	6-Apr-05	6.89	206	1237(?)	15	ND	ND	44	0.3	33	30	155
Stream-3	13-Oct-04	6.09	581	17	25	ND	162	120	ND	110	78	343
Stream-3	29-Apr-04	N/A	309	18	24	ND	ND	63	0.3	44	39	208
Stream-3	8-Oct-03	7.06	300	12	26	0.3	15	64	0.3	35	63	2,100
Stream-3	23-Apr-03	7.12	300	5.0	33	0.4	13	52	0.3	5.0	58	180
Stream-3	8-Oct-02	6.20	2,420	12	1,300	0.3	22	1,200	ND	370	58	1,900
Stream-3	26-Mar-02	7.30	4,180	20	110	0.2	ND	940	1.1	590	500	3,200
Stream-3	26-Mar-02	6.96	230	44	36	0.2	ND	70	1.2	22	45	180
Stream-4	16-Sep-20	8.03	125	11	22	ND	16	49	0.2	14	14	97
Stream-4	11-Mar-20	7.51	164	3.0	8.7	ND	11	34	0.4	23	23	80
Stream-4	10-Sep-19	7.27	255	3.4	18	ND	10	31	ND	10	44	110
Stream-4	19-Mar-19	8.57	172	4.4	11	ND	10	32	0.2	20	20	94
Stream-4	8-Oct-18	6.80	153	7.0	28	ND	17	41	0.2	15	28	130
Stream-4	19-Mar-18	7.16	133	3.4	19	ND	10	41	0.2	26	26	130
Stream-4	19-Sep-17	7.65	216	330	230	0.5	41	230	0.1	ND	30	350
Stream-4	21-Mar-17	7.64	251	10	19	ND	13	62	0.1	44	35	190
Stream-4	21-Sep-16	7.08	332	4.2	26	ND	ND	58	0.1	18	67	210
Stream-4	16-Mar-16	5.56	144	7.0	17	ND	21	43	0.1	28	35	120
Stream-4	23-Sep-15	7.00	222	7.5	20	ND	9.0	72	ND	40	68	240
Stream-4	24-Mar-15	6.11	128	5.3	11	ND	11	42	0.13	25	33	150
Stream-4	22-Sep-14	7.19	289	8.6	14	ND	15	67	ND	38	61	240
Stream-4	25-Mar-14	7.22	112	4.5	8.1	ND	ND	40	0.20	23	29	150
Stream-4	25-Sep-13	7.51	181	5.3	12	ND	13	33	ND	6	52	130
Stream-4	27-Mar-13	7.31	141	7.6	12	ND	13	42	0.12	30	41	150
Stream-4	19-Sep-12	7.32	262	4.6	11	ND	15	48	ND	36	68	190
Stream-4	27-Mar-12	7.19	4,253	8.1	19	ND	5.0	89	0.2	100	55	280
Stream-4	28-Sep-11	6.30	699	24	38	0.4	22	210	0.1	200	99	460
Stream-4	28-Mar-11	6.96	147	1.8	36	ND	15	57	0.2	30	34	130
Stream-4	5-Oct-10	6.89	1,204	16	39	ND	6.0	390	0.1	460	200	990
Stream-4	25-Mar-10	7.49	151	9.3	31	ND	ND	56	0.2	36	31	140
Stream-4	28-Sep-09	7.11	268	9.0	31	ND	ND	62	ND	38	48	180
Stream-4	26-Mar-09	7.24	145	7.3	7.5	ND	ND	44	ND	33	36	100
Stream-4	11-Aug-08	6.12	268	36	10	ND	12	30	ND	14	55	156
Stream-4	16-Apr-08	6.25	244,000	16	23	ND	17	43	ND	30	36	168
Stream-4	10-Oct-07	6.67	343	17	46	ND	ND	48	ND	17	78	241
Stream-4	10-Apr-07	7.23	200	3.4	8.0	ND	ND	32	0.3	22	34	117
Stream-4	25-Oct-06	7.07	203	205	25	ND	33	42	ND	12	31	121
Stream-4	27-Mar-06	5.70	220	16	11	ND	29	45	ND	31	35	143
Stream-4	10-Nov-05	6.61	309	10	10	ND	ND	52	ND	39	56	189
Stream-4	6-Apr-05	7.06	174	15	11	ND	ND	29	0.4	23	29	477
Stream-4	13-Oct-04	5.70	220	20	15	ND	ND	35	ND	19	41	137
Stream-4	29-Apr-04	6.70	205	14	8.0	ND	ND	33	0.2	22	34	124
Stream-4	8-Oct-03	5.33	193	9.0	13	0.3	ND	30	0.3	75	38	590
Stream-4	23-Apr-03	5.90	210	5.0	10	0.4	12	37	0.4	21	38	110
Stream-4	8-Oct-02	7.04	314	25	36	0.4	27	70	ND	58	45	1,900

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Location	Date	pH (Field) (SU)	Spec. Cond. (field) (umhos/cm)	Turbidity (NTU)	Alkalinity (mg/l)	Ammonia (mg/l)	COD (mg/l)	Hardness (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	total chloride (mg/l)	TDS (mg/l)
Stream-7	16-Sep-20	7.50	624	36	350	0.2	44	390	0.3	34	25	440
Stream-7	10-Mar-20	7.79	834	7.5	260	ND	33	340	0.2	44	25	360
Stream-7	10-Sep-19	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7	20-Mar-19	6.58	366	42	290	0.3	33	380	0.5	47	22	360
Stream-7	7-Oct-18	7.02	721	6.1	470	0.3	60	420	0.3	44	37	620
Stream-7	19-Mar-18	7.35	663	34	410	0.4	54	480	0.3	92	42	610
Stream-7	19-Sep-17	7.95	505	6.7	200	ND	38	200	0.5	14	33	310
Stream-7	21-Mar-17	7.69	614	31	240	0.3	39	260	0.3	45	40	390
Stream-7	21-Sep-16	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7	16-Mar-16	7.19	655	8.7	188	ND	61	370	0.7	71	44	540
Stream-7	23-Sep-15	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7	24-Mar-15	7.60	411	15	330	0.4	50	380	0.5	74	48	620
Stream-7	22-Sep-14	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7	25-Mar-14	7.85	461	9.3	275	0.6	43	310	0.30	62	49	480
Stream-7	25-Sep-13	7.46	516	2.8	192	ND	36	250	0.93	72	39	410
Stream-7	27-Mar-13	7.21	476	18	267	1.1	43	310	0.34	68	54	490
Stream-7	19-Sep-12	7.34	645	13	248	1.4	50	280	1.6	81	67	520
Stream-7	27-Mar-12	7.19	689	28	362	2.6	69	360	0.5	120	98	710
Stream-7	28-Sep-11	6.33	408	560	220	2.0	46	220	0.3	33	39	350
Stream-7	28-Mar-11	6.96	928	19	484	5.9	99	510	1.6	110	110	880
Stream-7	5-Oct-10	6.88	758	28	334	ND	63	330	0.9	94	90	630
Stream-7	25-Mar-10	7.47	1,053	30	506	5.8	89	490	1.2	130	110	910
Stream-7	28-Sep-09	7.43	860	23	94	2.3	89	330	0.8	63	96	660
Stream-7	26-Mar-09	7.63	971	34	502	1.5	100	480	0.8	91	140	940
Stream-7	11-Aug-08	7.63	1,440	23	530	5.7	132	411	0.6	38	137	889
Stream-7	16-Apr-08	7.56	1,290	55	502	3.2	113	422	0.3	41	75	773
Stream-7	11-Oct-07	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7	10-Apr-07	7.14	723	1.5	515	6.7	105	430	0.7	94	110	939
Stream-7	25-Oct-06	7.19	1,804	17	659	11.2	129	540	ND	69	156	1,140
Stream-7	27-Apr-06	7.35	1,254	36	440	2.7	152	400	0.5	67	98	782
Stream-7	10-Nov-05	6.59	1,391	2.2	157	ND	82	270	0.8	47	89	591
Stream-7	6-Apr-05	6.54	925	41	313	4.2	73	290	ND	88	68	593
Stream-7	13-Oct-04	6.41	1,087	36	470	2.6	125	290	ND	36	98	641
Stream-7	29-Apr-04	N/A	1,075	35	322	0.8	86	330	0.5	95	72	709
Stream-7	8-Oct-03	7.47	1,057	30	330	1.8	82	360	2.5	38	87	2,300
Stream-7	23-Apr-03	6.74	1,163	13	350	2.4	95	400	3.0	160	85	800
Stream-7	8-Oct-02	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7	26-Mar-02	6.83	876	44	240	0.2	40	290	3.2	14	90	604

Table 2. General Chemistry Analysis

Location	Date	pH (Field) (SU)	Spec. Cond. (field) (umhos/cm)	Turbidity (NTU)	Alkalinity (mg/l)	Ammonia (mg/l)	COD (mg/l)	Hardness (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	total chloride (mg/l)	TDS (mg/l)
Stream-8	16-Sep-20	7.53	213	33	100	0.1	36	110	0.045J	10	11	170
Stream-8	11-Mar-20	7.63	483	8.5	170	ND	27	210	0.4	35	30	280
Stream-8	10-Sep-19	7.43	708	2.0	230	ND	32	230	0.2	7.5	59	350
Stream-8	19-Mar-19	7.49	231	8.1	93	0.2	16	110	0.3	26	15	200
Stream-8	8-Oct-18	7.42	295	19	140	0.1	29	170	0.2	17	21	230
Stream-8	20-Mar-18	6.09	277	33	140	0.2	24	180	0.4	40	33	270
Stream-8	20-Sep-17	6.05	312	0.5	160	0.1	24	160	20.0	12	41	290
Stream-8	22-Mar-17	6.00	277	6.0	79	ND	17	100	0.2	31	23	180
Stream-8	21-Sep-16	7.55	713	3.8	202	ND	23	210	0.2	ND	75	370
Stream-8	16-Mar-16	8.70	289	5.6	121	ND	29	130	0.3	34	28	210
Stream-8	23-Sep-15	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-8	24-Mar-15	6.97	218	5.5	96	0.13	17	120	0.25	33	24	260
Stream-8	22-Sep-14	8.69	455	2.9	178	ND	24	200	0.48	18	61	340
Stream-8	25-Mar-14	7.14	243	7.7	135	0.65	18	170	ND	38	25	250
Stream-8	25-Sep-13	7.58	497	9.2	206	ND	35	200	0.43	18	81	400
Stream-8	27-Mar-13	7.35	213	11	80	0.15	18	100	0.18	36	27	190
Stream-8	19-Sep-12	7.33	449	13	28	0.4	21	220	0.6	75	70	430
Stream-8	27-Mar-12	7.16	304	8.9	126	ND	18	120	0.4	37	34	220
Stream-8	28-Sep-11	6.33	260	21	94	0.5	22	97	0.2	19	21	150
Stream-8	28-Mar-11	6.97	291	10	84	0.9	30	160	0.4	44	36	270
Stream-8	5-Oct-10	6.91	369	62	140	ND	58	140	0.4	35	44	290
Stream-8	25-Mar-10	7.37	356	10	172	2.1	29	170	0.5	45	36	310
Stream-8	28-Sep-09	7.19	560	10	225	0.2	34	200	1.1	33	59	390
Stream-8	25-Mar-09	7.54	390	4.6	194	0.6	34	210	0.6	48	53	250
Stream-8	11-Aug-08	7.73	9,930	10	344	0.1	66	295	0.8	55	91	637
Stream-8	16-Apr-08	7.10	607	11	205	0.6	41	189	1.0	49	52	403
Stream-8	11-Oct-07	8.20	103	5.1	413	ND	ND	3,100	0.6	17	110	702
Stream-8	10-Apr-07	7.05	679	ND	232	1.6	38	190	1.1	39	45	436
Stream-8	25-Oct-06	7.11	832	2.4	271	ND	26	230	1.6	44	61	513
Stream-8	27-Apr-06	6.85	540	3.6	160	ND	35	160	0.8	41	43	329
Stream-8	10-Nov-05	6.11	935	11	557	ND	116	470	ND	145	116	934
Stream-8	6-Apr-05	6.73	365	15	105	ND	22	120	0.4	49	23	258
Stream-8	13-Oct-04	6.32	870	5.7	306	ND	45	220	1.5	31	74	513
Stream-8	29-Apr-04	N/A	1,075	35	322	0.8	86	330	0.5	95	72	709
Stream-8	8-Oct-03	5.75	665	2.0	220	0.6	41	230	2.5	32	55	480
Stream-8	23-Apr-03	6.93	828	2.0	240	2.3	52	250	3.1	93	61	540

Table 3. Total Metals Analyses - Monitoring Wells



	Compound	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	
Location	MCL (mg/l):	0.006	0.010	2.000	0.0040	0.0050	0.100	--	1.300	0.30	0.015	--	0.05	0.002	--	--	0.05	0.10	--	0.002	--	5	
MW-1	15-Sep-20	ND	0.005	0.059	ND	ND	ND	ND	ND	20	ND	18	1.0	ND	ND	3.3	ND	ND	8	ND	ND	0.012	
MW-1	11-Mar-20	ND	0.007	0.069	ND	ND	ND	ND	ND	27	ND	18	0.9	ND	ND	2.8	ND	ND	ND	ND	ND	0.023	
MW-1	11-Sep-19	ND	0.010	0.060	ND	ND	ND	ND	ND	36	ND	19	1.4	ND	ND	3.5	ND	ND	11	ND	ND	0.023	
MW-1	19-Mar-19	0.0026	0.007	0.089	ND	ND	ND	ND	0.024	20	0.005	18	1.1	ND	ND	3.0	ND	ND	11	ND	ND	0.042	
MW-1	7-Oct-18	ND	0.008	0.055	ND	ND	ND	ND	ND	23	0.002	24	1.5	ND	0.070	2.9	ND	ND	15	ND	ND	0.040	
MW-1	19-Mar-18	ND	0.005	0.064	ND	ND	ND	ND	ND	31	ND	21	1.4	ND	ND	2.8	ND	ND	13	ND	ND	0.022	
MW-1	18-Sep-17	ND	0.005	0.060	ND	ND	ND	ND	ND	24	ND	24	1.5	ND	ND	3.3	ND	ND	13	ND	ND	0.017	
MW-1	21-Mar-17	ND	0.001	0.081	ND	ND	ND	ND	ND	36	0.004	23	1.7	ND	0.020	ND	ND	ND	1	ND	ND	0.059	
MW-1	20-Sep-16	ND	0.009	0.060	ND	ND	ND	ND	ND	30	ND	22.0	1.4	ND	ND	3.4	ND	ND	ND	ND	ND	ND	0.044
MW-1	15-Mar-16	ND	0.014	0.095	ND	ND	ND	ND	ND	98	0.004	24.0	1.8	ND	ND	3.3	ND	ND	14	ND	ND	0.046	
MW-1	22-Sep-15	ND	0.013	0.070	ND	ND	ND	0.012	ND	42	ND	24.0	1.9	ND	ND	3.6	ND	ND	18	ND	ND	0.038	
MW-1	23-Mar-15	ND	0.0069	0.092	ND	ND	ND	ND	ND	49	ND	26.0	1.8	ND	ND	3.5	ND	ND	16	ND	ND	0.028	
MW-1	22-Sep-14	ND	0.012	0.065	ND	ND	ND	0.011	ND	40	ND	22.0	1.8	ND	ND	3.3	ND	ND	21	ND	ND	0.045	
MW-1	24-Mar-14	ND	0.0074	0.100	ND	ND	ND	0.013	ND	54	ND	27.0	2.1	ND	ND	3.1	ND	ND	17	ND	ND	0.030	
MW-1	24-Sep-13	ND	0.012	0.075	ND	ND	ND	0.013	ND	34	ND	24.0	1.7	ND	ND	3.2	ND	ND	25	ND	ND	0.025	
MW-1	26-Mar-13	ND	0.014	0.200	ND	ND	0.014	0.019	0.013	85	0.014	25.0	2.3	ND	0.013	3.8	ND	ND	18	ND	0.028	0.048	
MW-1	19-Sep-12	ND	0.009	0.073	ND	ND	ND	0.016	ND	28	ND	15.0	1.6	ND	ND	ND	ND	ND	18	ND	ND	0.04	
MW-1	27-Mar-12	ND	0.003	0.084	ND	ND	ND	0.019	ND	17	ND	14.0	1.9	ND	ND	2.7	ND	ND	19	ND	ND	0.03	
MW-1	28-Sep-11	ND	0.035	0.640	0.0085	0.0007	0.081	0.049	0.091	220	0.090	21.0	1.8	0.0001	0.057	7.0	0.0025	ND	16	0.0009	0.140	0.18	
MW-1	28-Mar-11	ND	0.001	0.049	ND	ND	ND	0.018	ND	1.3	ND	15.0	1.3	ND	0.003	2.4	ND	ND	16	ND	ND	0.019	
MW-1	5-Oct-10	0.0005	0.007	0.071	ND	ND	0.001	0.014	0.008	16	0.004	14.0	1.1	ND	0.003	3.1	ND	ND	14	ND	0.003	0.031	
MW-1	24-Mar-10	ND	0.003	0.071	ND	ND	0.005	0.016	0.003	7.7	0.002	12.0	1.2	ND	0.005	2.7	ND	ND	13	ND	0.006	0.035	
MW-1	28-Sep-09	ND	0.006	0.066	ND	ND	ND	0.012	ND	10	0.004	12.0	0.99	ND	ND	3.0	ND	ND	11	ND	0.005	0.015	
MW-1	26-Mar-09	ND	ND	0.100	ND	ND	0.012	0.020	0.007	9.3	0.006	14.0	1.10	ND	0.009	3.1	ND	ND	14	ND	0.016	0.029	
MW-1	11-Aug-08	ND	ND	0.058	0.0005	ND	0.003	0.019	ND	1.9	ND	0.79	ND	0.005	ND	ND	ND	ND	ND	0.004	0.015		
MW-1	16-Apr-08	ND	ND	0.053	0.0002	ND	ND	0.009	ND	0.36	ND	0.86	ND	0.003	ND	ND	ND	ND	ND	ND	ND	ND	
MW-1	11-Oct-07	ND	ND	0.029	ND	ND	ND	ND	ND	0.19	ND	0.06	ND	0.006	ND	ND	ND	ND	ND	ND	ND	0.034	
MW-1	10-Oct-07	ND	ND	0.054	ND	ND	ND	0.013	ND	0.83	ND	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.018	
MW-1	10-Apr-07	ND	ND	0.050	ND	ND	ND	0.009	ND	0.32	ND	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.018	
MW-1	25-Oct-06	ND	ND	0.042	ND	ND	ND	0.014	ND	0.38	ND	0.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.018	
MW-1	27-Apr-06	ND	ND	0.045	ND	ND	ND	0.010	0.022	0.25	ND	0.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.020	
MW-1	10-Nov-05	ND	ND	0.045	ND	ND	ND	0.017	ND	0.47	ND	0.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015	
MW-1	6-Apr-05	ND	ND	0.040	ND	ND	ND	0.013	ND	0.21	ND	0.87	ND	ND*	ND	ND	ND	ND	ND	ND	ND	0.028	
MW-1	13-Oct-04	ND	ND	ND	ND	ND	ND	0.014	ND	0.17	ND	0.68	ND	ND*	ND	ND	ND	ND	ND	ND	ND	0.014	
MW-1	29-Apr-04	ND	ND	0.030	ND	ND	ND	0.015	ND	0.23	ND	0.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015	
MW-1	8-Oct-03	ND	ND	0.043	ND	ND	ND	0.026	ND	0.41	ND	1.10	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	
MW-1	23-Apr-03	ND	ND	0.038	ND	ND	ND	0.017	ND	0.33	ND	1.10	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	
MW-1	8-Oct-02	ND	ND	0.037	ND	ND	ND	0.020	ND	0.25	ND	1.10	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	
MW-1	26-Mar-02	ND	ND	0.031	ND	ND	0.017	ND	0.13	ND	1.10	ND	0.010	ND	ND	ND	ND	ND	ND	ND	ND	0.058	

Table 3. Total Metals Analyses - Monitoring Wells

	Compound	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Location	MCL (mg/l):	0.006	0.010	2.000	0.0040	0.0050	0.100	--	1.300	0.30	0.015	--	0.05	0.002	--	--	0.05	0.10	--	0.002	--	5
MW- 2	15-Sep-20	ND	ND	0.050	ND	ND	ND	ND	ND	0.19	ND	0.54	0.019	ND	ND	1.4	ND	ND	3	ND	ND	0.026
MW- 2	10-Mar-20	ND	ND	0.048	ND	ND	ND	ND	ND	0.25	ND	0.48	0.041	ND	ND	1.6	ND	ND	4	ND	ND	0.024
MW- 2	12-Sep-19	ND	ND	0.059	ND	ND	ND	ND	ND	1.3	0.003	0.59	0.035	ND	ND	2.6	ND	ND	4	ND	ND	0.039
MW- 2	19-Mar-19	ND	ND	0.065	ND	ND	ND	ND	ND	ND	ND	0.41	0.014	ND	ND	1.2	ND	ND	3	ND	ND	0.019
MW- 2	7-Oct-18	ND	ND	0.051	ND	ND	ND	ND	ND	ND	ND	0.41	0.025	ND	ND	1.0	ND	ND	3	ND	ND	0.030
MW- 2	19-Mar-18	ND	ND	0.062	ND	ND	ND	ND	ND	0.12	ND	0.40	0.40	ND	ND	1.6	ND	ND	4	ND	ND	0.023
MW- 2	18-Sep-17	ND	ND	0.055	ND	ND	ND	ND	ND	0.36	ND	0.41	0.028	ND	ND	1.2	ND	ND	3	ND	ND	0.035
MW- 2	21-Mar-17	ND	ND	0.058	ND	ND	ND	ND	0.010	1.7	0.003	0.51	0.050	ND	0.022	ND	ND	ND	3	ND	ND	0.044
MW- 2	21-Sep-16	ND	ND	0.057	ND	ND	ND	ND	ND	0.23	ND	0.43	0.040	ND	ND	1.0	ND	ND	3	ND	ND	0.039
MW- 2	15-Mar-16	ND	ND	0.071	ND	ND	ND	ND	ND	0.38	ND	0.38	0.046	ND	ND	1.1	ND	ND	3	ND	ND	0.031
MW- 2	22-Sep-15	ND	ND	0.056	ND	ND	ND	ND	ND	0.25	ND	0.44	0.028	ND	ND	1.1	ND	ND	3	ND	ND	0.027
MW- 2	23-Mar-15	ND	ND	0.071	ND	ND	ND	ND	0.012	1.1	ND	0.53	0.030	ND	ND	1.4	ND	ND	3	ND	ND	0.033
MW- 2	22-Sep-14	ND	ND	0.054	ND	ND	ND	ND	ND	0.11	ND	0.44	0.023	ND	ND	2.1	ND	ND	4	ND	ND	0.030
MW- 2	25-Mar-14	ND	ND	0.075	ND	ND	ND	ND	ND	0.18	ND	0.45	0.033	ND	ND	1.3	ND	ND	3	ND	ND	0.024
MW- 2	24-Sep-13	ND	ND	0.053	ND	ND	ND	ND	ND	ND	ND	0.56	0.019	ND	ND	1.4	ND	ND	3	ND	ND	0.019
MW- 2	26-Mar-13	ND	ND	0.080	ND	ND	ND	ND	ND	0.35	ND	0.41	0.025	ND	ND	1.1	ND	ND	3	ND	ND	ND
MW- 2	19-Sep-12	ND	ND	0.059	ND	ND	ND	ND	ND	0.42	ND	0.43	0.029	ND	ND	ND	ND	ND	3	ND	ND	0.026
MW- 2	27-Mar-12	ND	ND	0.092	ND	ND	ND	ND	ND	0.74	ND	0.45	0.027	ND	ND	1.7	ND	ND	4	ND	ND	0.021
MW- 2	28-Sep-11	ND	0.001	0.058	ND	ND	0.002	0.001	0.004	1.2	0.001	0.58	0.019	ND	0.003	2.6	ND	ND	4	ND	0.003	ND
MW- 2	28-Mar-11	ND	0.001	0.094	ND	ND	0.002	0.002	0.011	1.4	0.002	0.60	0.027	ND	0.003	1.5	ND	ND	3	ND	0.003	0.030
MW- 2	5-Oct-10	ND	0.001	0.063	ND	ND	0.002	0.003	0.008	2.6	0.002	0.78	0.045	ND	0.006	2.2	ND	ND	4	ND	0.004	0.041
MW- 2	24-Mar-10	ND	0.002	0.081	ND	ND	0.005	0.003	0.005	3.8	0.003	0.89	0.06	ND	0.005	1.7	ND	ND	4	ND	0.008	0.043
MW- 2	28-Sep-09	ND	0.008	0.180	ND	ND	0.037	0.013	0.029	37.0	0.037	4.30	0.33	ND	0.019	5.5	ND	ND	6	ND	0.075	0.064
MW- 2	26-Mar-09	ND	ND	0.100	ND	ND	ND	ND	ND	0.08	ND	0.67	0.01	ND	0.005	1.6	ND	ND	4	ND	ND	0.017
MW- 2	11-Aug-08	ND	ND	0.039	0.0003	0.0005	ND	0.004	ND	0.12	ND	0.05	ND	0.007	ND	ND	ND	ND	ND	ND	ND	0.014
MW- 2	16-Apr-08	ND	ND	0.029	0.0004	0.0005	ND	0.004	ND	0.13	ND	0.05	ND	0.006	ND	ND	ND	ND	ND	ND	ND	0.013
MW- 2	10-Oct-07	ND	ND	0.036	ND	ND	ND	ND	ND	0.27	ND	0.06	ND	0.007	ND	ND	ND	ND	ND	ND	ND	0.017
MW- 2	10-Apr-07	ND	ND	0.033	ND	ND	ND	ND	ND	0.36	ND	0.05	ND	0.006	ND	ND	ND	ND	ND	ND	ND	0.017
MW- 2	10-Apr-07	ND	ND	0.033	ND	ND	ND	ND	ND	0.36	ND	0.05	ND	0.006	ND	ND	ND	ND	ND	ND	ND	0.017
MW- 2	27-Apr-06	ND	ND	0.032	ND	ND	ND	ND	ND	0.26	ND	0.05	ND	0.005	ND	ND	ND	ND	ND	ND	ND	0.016
MW- 2	10-Nov-05	ND	ND	0.036	ND	ND	ND	ND	ND	1.1	ND	0.07	ND	ND*	ND	ND	ND	ND	ND	ND	ND	0.020
MW- 2	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	0.07	ND	ND*	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	0.12	ND	0.05	ND	ND*	ND	ND	ND	ND	ND	ND	ND	0.021
MW- 2	29-Apr-04	ND	ND	0.021	ND	ND	ND	ND	ND	0.21	ND	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.018
MW- 2	8-Oct-03	ND	ND	0.037	ND	ND	ND	ND	ND	0.25	ND	0.06	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	23-Apr-03	ND	ND	0.031	ND	ND	ND	ND	ND	0.28	ND	0.05	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	8-Oct-02	ND	ND	0.030	ND	ND	ND	ND	ND	0.18	ND	0.06	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	26-Mar-02	ND	ND	0.022	ND	ND	ND	ND	ND	1.30	ND	0.11	ND	0.006	ND	ND	ND	ND	ND	ND	ND	0.052

Table 3. Total Metals Analyses - Monitoring Wells

	Compound	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Location	MCL (mg/l):	0.006	0.010	2.000	0.0040	0.0050	0.100	--	1.300	0.30	0.015	--	0.05	0.002	--	--	0.05	0.10	--	0.002	--	5
MW- 3	15-Sep-20	ND	ND	0.055	ND	ND	ND	ND	ND	0.60	ND	2.3	0.059	ND	ND	2.1	ND	ND	3.3	ND	ND	0.021
MW- 3	10-Mar-20	ND	ND	0.049	ND	ND	ND	ND	ND	1.1	ND	2.9	0.098	ND	ND	2.4	ND	ND	3.7	ND	ND	0.027
MW- 3	16-Sep-19	ND	ND	0.055	ND	ND	ND	ND	0.017	0.58	ND	2.5	0.013	ND	ND	2.4	ND	ND	2.2	ND	ND	0.030
MW- 3	19-Mar-19	ND	0.004	0.052	ND	ND	ND	ND	ND	9.90	ND	2.8	0.092	ND	ND	2.6	ND	ND	2.4	ND	ND	0.028
MW- 3	7-Oct-18	ND	ND	0.050	ND	ND	ND	ND	ND	0.25	ND	2.9	0.021	ND	ND	2.5	ND	ND	2.7	ND	ND	0.031
MW- 3	19-Mar-18	ND	ND	0.040	ND	ND	ND	ND	ND	0.52	ND	2.6	0.014	ND	ND	2.2	ND	ND	3.8	ND	ND	0.034
MW- 3	19-Sep-17	ND	ND	0.048	ND	ND	ND	ND	ND	0.21	ND	3.0	0.030	ND	ND	3.2	ND	ND	3.9	ND	ND	0.082
MW- 3	21-Mar-17	ND	ND	0.044	ND	ND	ND	ND	ND	0.18	ND	2.7	0.015	ND	ND	ND	ND	ND	3.5	ND	ND	0.020
MW- 3	20-Sep-16	ND	ND	0.045	ND	ND	ND	ND	ND	0.66	ND	2.5	0.023	ND	ND	2.2	ND	ND	ND	ND	ND	0.049
MW- 3	16-Mar-16	ND	ND	0.040	ND	ND	ND	ND	ND	0.61	ND	2.5	0.016	ND	ND	2.1	ND	ND	3.5	ND	ND	0.035
MW- 3	23-Sep-15	ND	ND	0.071	ND	ND	ND	ND	ND	0.80	ND	3.7	0.034	ND	ND	2.7	ND	ND	2.9	ND	ND	0.038
MW- 3	24-Mar-15	ND	ND	0.064	ND	ND	ND	ND	ND	1.50	ND	3.2	0.023	ND	ND	2.5	ND	ND	3.1	ND	ND	0.036
MW- 3	22-Sep-14	ND	ND	0.064	ND	ND	ND	0.015	ND	0.85	ND	3.2	0.150	ND	ND	2.2	ND	ND	2.6	ND	ND	0.037
MW- 3	25-Mar-14	ND	ND	0.056	ND	ND	ND	ND	ND	0.56	ND	3.1	0.033	ND	ND	2.3	ND	ND	3.3	ND	ND	0.021
MW- 3	24-Sep-13	ND	ND	0.060	ND	ND	ND	ND	ND	0.86	ND	3.1	0.021	ND	ND	2.5	ND	ND	2.7	ND	ND	0.025
MW- 3	26-Mar-13	ND	ND	0.058	ND	ND	ND	ND	ND	0.56	ND	3.6	0.031	ND	ND	2.9	ND	ND	3.2	ND	ND	0.017
MW- 3	19-Sep-12	ND	ND	0.072	ND	ND	ND	ND	ND	0.39	ND	3.3	0.060	ND	ND	ND	ND	ND	2.9	ND	ND	0.026
MW- 3	27-Mar-12	ND	ND	0.068	ND	ND	ND	ND	ND	0.59	ND	3.9	0.028	ND	ND	3.0	ND	ND	2.8	ND	ND	0.026
MW- 3	28-Sep-11	ND	0.001	0.070	ND	0.0023	0.001	0.006	0.003	0.86	0.001	4.0	0.074	ND	0.008	2.6	ND	ND	2.9	ND	ND	0.012
MW- 3	28-Mar-11	ND	0.001	0.062	ND	0.0030	ND	0.004	0.006	0.80	0.001	4.5	0.025	ND	0.006	2.8	ND	ND	2.7	ND	ND	0.028
MW- 3	5-Oct-10	ND	0.001	0.081	ND	0.0032	ND	0.017	0.002	2.30	ND	4.2	0.16	ND	0.010	2.9	ND	ND	3.2	ND	ND	0.040
MW- 3	25-Mar-10	ND	0.004	0.075	ND	0.0029	0.001	0.019	0.004	11.00	0.001	4.4	0.27	ND	0.008	3.6	ND	ND	3.0	ND	ND	0.033
MW- 3	28-Sep-09	ND	ND	0.084	ND	ND	ND	ND	0.009	0.39	ND	4.5	0.036	ND	0.009	2.5	ND	ND	2.5	ND	ND	0.020
MW- 3	26-Mar-09	ND	ND	0.086	ND	ND	ND	ND	ND	0.37	ND	4.5	0.032	ND	0.008	3.1	ND	ND	3.0	ND	0.005	0.014
MW- 3	11-Aug-08	ND	ND	0.051	ND	0.0020	ND	0.007	ND	0.94	ND		0.139	ND	0.042		ND	ND		ND	ND	0.013
MW- 3	16-Apr-08	ND	ND	0.048	ND	0.0018	ND	0.006	ND	55.50	ND		0.137	ND	0.006		ND	ND		ND	ND	0.011
MW- 3	10-Oct-07	ND	ND	0.054	ND	ND	ND	0.005	ND	0.94	ND		0.13	ND	0.008		ND	ND		ND	ND	0.022
MW- 3	10-Apr-07	ND	ND	0.049	ND	ND	ND	ND	ND	0.44	ND		0.05	ND	0.007		ND	ND		ND	ND	0.018
MW- 3	25-Oct-06	ND	ND	0.036	ND	ND	ND	ND	ND	1.20	ND		0.18	ND	0.008		ND	ND		ND	ND	0.027
MW- 3	27-Apr-06	ND	ND	0.040	ND	ND	ND	ND	ND	0.91	ND		0.08	ND	0.007		ND	ND		ND	ND	0.017
MW- 3	10-Nov-05	ND	ND	0.045	ND	ND	ND	ND	ND	1.10	ND		0.09	ND	0.008		ND	ND		ND	ND	0.027
MW- 3	6-Apr-05	ND	ND	0.049	ND	ND	ND	ND	ND	0.53	ND		0.07	ND	ND		ND	ND		ND	ND	0.020
MW- 3	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	0.87	ND		0.08	ND	ND*		ND	ND		ND	ND	0.02
MW- 3	29-Apr-04	ND	ND	0.037	ND	ND	ND	ND	ND	0.72	ND		0.08	ND	ND		ND	ND		ND	ND	0.017
MW- 3	8-Oct-03	ND	ND	0.050	ND	ND	ND	0.008	ND	0.92	ND		0.17	ND	0.009		ND	ND		ND	ND	
MW- 3	23-Apr-03	ND	ND	0.040	ND	ND	ND	ND	ND	0.44	ND		0.07	ND	0.007		ND	ND		ND	ND	
MW- 3	8-Oct-02	ND	ND	0.018	ND	ND	ND	ND	ND	1.10	ND		0.15	ND	ND		ND	ND		ND	ND	
MW- 3	26-Mar-02	ND	ND	0.030	ND	ND	ND	ND	ND	0.13	ND		ND	ND	0.030		ND	ND		ND	ND	0.039

Table 3. Total Metals Analyses - Monitoring Wells

	Compound	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	
Location	MCL (mg/l):	0.006	0.010	2.000	0.0040	0.0050	0.100	--	1.300	0.30	0.015	--	0.05	0.002	--	--	0.05	0.10	--	0.002	--	5	
MW- 4	24-Sep-13	ND	ND	0.034	ND	ND	ND	ND	ND	ND	ND	3.4	0.015	ND	ND	2.1	ND	ND	5	ND	ND	0.011	
MW- 4	27-Mar-13	ND	ND	0.030	ND	ND	ND	ND	ND	ND	ND	3.5	ND	ND	ND	2.1	ND	ND	5	ND	ND	ND	
MW- 4	19-Sep-12	ND	ND	0.036	ND	ND	ND	ND	ND	ND	ND	3.5	0.026	ND	ND	2.0	ND	ND	5	ND	ND	0.014	
MW- 4	27-Mar-12	ND	ND	0.040	ND	ND	ND	ND	ND	ND	ND	2.7	0.058	ND	ND	1.8	ND	ND	3	ND	ND	0.010	
MW- 4	28-Sep-11	ND	ND	0.035	ND	ND	0.001	ND	0.004	0.32	0.001	3.2	0.018	ND	0.002	3.0	ND	ND	4	ND	ND	ND	
MW- 4	28-Mar-11	ND	ND	0.045	ND	ND	ND	ND	0.004	0.08	0.001	3.5	0.012	ND	0.001	2.0	ND	ND	4	ND	ND	0.018	
MW- 4	5-Oct-10	ND	0.001	0.029	ND	ND	ND	ND	0.001	0.05	ND	3.2	0.024	ND	0.002	2.1	ND	ND	4	ND	ND	0.016	
MW- 4	24-Mar-10	ND	0.001	0.036	ND	ND	ND	ND	0.003	0.20	ND	3.6	0.02	ND	0.002	2.1	ND	ND	5	ND	ND	0.018	
MW- 4	28-Sep-09	ND	ND	0.036	ND	ND	ND	ND	ND	0.14	ND	3.6	0.26	ND	0.008	2.1	ND	ND	5	ND	ND	0.016	
MW- 4	26-Mar-09	ND	ND	0.028	ND	ND	ND	ND	ND	0.06	ND	3.5	0.016	ND	ND	2.0	ND	ND	5	ND	0.005	ND	
MW- 4	11-Aug-08	ND	ND	0.040	ND	0.0002	ND	ND	ND	0.07	ND	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW- 4	16-Apr-08	ND	ND	0.041	ND	ND	ND	ND	ND	0.08	ND	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW- 4	10-Oct-07	ND	ND	0.033	ND	ND	ND	ND	ND	0.07	ND	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014	
MW- 4	10-Apr-07	ND	ND	0.043	ND	ND	ND	ND	ND	0.15	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012	
MW- 4	25-Oct-06	ND	ND	0.037	ND	ND	ND	ND	ND	0.12	ND	0.037	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014	
MW- 4	27-Apr-06	ND	ND	0.042	ND	ND	ND	ND	ND	0.01	ND	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011	
MW- 4	10-Nov-05	ND	ND	0.033	ND	ND	ND	ND	ND	0.37	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011	
MW- 4	6-Apr-05	ND	ND	0.045	ND	ND	ND	ND	ND	0.24	ND	0.014	ND	ND*	ND	ND	ND	ND	ND	ND	ND	0.011	
MW- 4	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	ND	ND*	ND	ND	ND	ND	ND	ND	ND	ND	
MW- 4	29-Apr-04	ND	ND	0.028	ND	ND	ND	ND	ND	0.22	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW- 4	8-Oct-03	ND	ND	0.037	ND	ND	ND	ND	ND	0.25	ND	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW- 4	23-Apr-03	ND	ND	0.036	ND	ND	ND	ND	ND	0.31	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW- 4	8-Oct-02	ND	ND	0.029	ND	ND	ND	ND	ND	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW- 4A	16-Sep-20	ND	ND	0.014	ND	ND	ND	ND	ND	0.86	ND	3.1	0.062	ND	ND	2.2	ND	ND	3.7	ND	ND	ND	
MW- 4A	10-Mar-20	ND	ND	0.018	ND	ND	ND	ND	ND	0.63	ND	3.1	0.036	ND	ND	2.4	ND	ND	5.6	ND	ND	0.012J	
MW- 4A	11-Sep-19	ND	ND	0.016	ND	ND	ND	ND	ND	0.30	ND	3.2	0.058	ND	ND	2.6	ND	ND	4.0	ND	ND	0.012J	
MW- 4A	20-Mar-19	ND	ND	0.020	ND	ND	ND	ND	ND	0.015	0.77	0.003	3.2	0.230	ND	ND	2.5	ND	ND	5.2	ND	ND	0.022
MW- 4A	7-Oct-18	ND	ND	0.015	ND	ND	ND	ND	ND	0.33	ND	2.7	0.051	ND	ND	2.1	ND	ND	3.5	ND	ND	0.014J	
MW- 4A	19-Mar-18	ND	ND	0.018	ND	ND	ND	ND	ND	0.62	ND	2.9	0.042	ND	ND	2.3	ND	ND	5.1	ND	ND	0.018	
MW- 4A	19-Sep-17	ND	ND	0.016	ND	ND	ND	ND	ND	0.29	ND	3.0	0.052	ND	ND	2.3	ND	ND	3.6	ND	ND	0.015	
MW- 4A	21-Mar-17	ND	ND	0.020	ND	ND	ND	ND	ND	0.57	ND	2.9	0.040	ND	ND	ND	ND	ND	4.2	ND	ND	0.014	
MW- 4A	20-Sep-16	ND	0.003	0.026	ND	ND	ND	ND	ND	2.30	ND	3.3	0.085	ND	ND	2.8	ND	ND	4.8	ND	ND	0.033	
MW- 4A	16-Mar-16	ND	0.003	0.021	ND	ND	ND	ND	ND	3.00	ND	3.0	0.250	ND	ND	2.3	ND	ND	4.6	ND	ND	0.023	
MW- 4A	23-Sep-15	ND	ND	0.025	ND	ND	ND	ND	ND	1.00	ND	3.4	0.180	ND	ND	3.1	ND	ND	ND	ND	ND	0.43	
MW- 4A	23-Mar-15	ND	0.006	0.027	ND	ND	ND	ND	ND	4.30	ND	3.3	0.180	ND	ND	2.5	ND	ND	5.3	ND	ND	0.021	
MW- 4A	22-Sep-14	ND	0.003	0.025	ND	ND	ND	ND	ND	0.71	ND	3.2	0.069	ND	ND	2.7	ND	ND	7.0	ND	ND	0.014	
MW- 4A	24-Mar-14	ND	0.003	0.040	ND	ND	ND	ND	ND	1.90	ND	4.7	0.110	ND	ND	3.9	ND	ND	16	ND	ND	ND	

Table 3. Total Metals Analyses - Monitoring Wells

	Compound	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Location	MCL (mg/l):	0.006	0.010	2.000	0.0040	0.0050	0.100	--	1.300	0.30	0.015	--	0.05	0.002	--	0.05	0.10	--	0.002	--	5	
MW- 5	16-Sep-20	ND	ND	0.038	ND	ND	ND	ND	ND	ND	ND	3.5	ND	ND	ND	3.6	ND	ND	3.4	ND	ND	ND
MW- 5	11-Mar-20	ND	ND	0.039	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND	3.2	ND	ND	3.0	ND	ND	0.012
MW- 5	11-Sep-19	ND	ND	0.046	ND	ND	ND	ND	0.140	0.22	0.002	3.3	ND	ND	ND	4.2	ND	ND	3.6	ND	ND	0.078
MW- 5	19-Mar-19	ND	ND	0.040	ND	ND	ND	ND	0.027	0.21	ND	3.1	0.031	ND	ND	3.7	ND	ND	3.0	ND	ND	0.036
MW- 5	8-Oct-18	ND	ND	0.048	ND	ND	ND	ND	0.012	0.21	ND	3.2	0.130	ND	ND	3.4	ND	ND	3.4	ND	ND	0.024
MW- 5	20-Mar-18	ND	ND	0.040	ND	ND	ND	ND	ND	0.23	0.003	3.1	0.035	ND	ND	3.7	ND	ND	3.3	ND	ND	0.020
MW- 5	20-Sep-17	ND	ND	0.037	ND	ND	ND	ND	ND	ND	ND	3.1	0.031	ND	ND	3.5	ND	ND	3.2	ND	ND	0.019
MW- 5	22-Mar-17	ND	ND	0.038	ND	ND	ND	ND	ND	ND	ND	3.3	0.018	ND	ND	ND	ND	ND	3.0	ND	ND	0.019
MW- 5	21-Sep-16	ND	ND	0.035	ND	ND	ND	ND	ND	ND	ND	3.3	ND	ND	ND	3.5	ND	ND	2.9	ND	ND	ND
MW- 5	16-Mar-16	ND	0.002	0.035	ND	ND	ND	ND	ND	ND	ND	3.1	ND	ND	ND	3.4	ND	ND	3.3	ND	ND	0.015
MW- 5	23-Sep-15	ND	ND	0.042	ND	ND	ND	ND	ND	ND	ND	3.4	ND	ND	ND	3.7	ND	ND	3.3	ND	ND	0.050
MW- 5	24-Mar-15	ND	ND	0.038	ND	ND	ND	ND	ND	ND	ND	3.0	0.020	ND	ND	3.4	ND	ND	3.1	ND	ND	0.017
MW- 5	22-Sep-14	ND	ND	0.036	ND	ND	ND	ND	ND	ND	ND	2.8	0.014	ND	ND	3.3	ND	ND	2.9	ND	ND	0.032
MW- 5	25-Mar-14	ND	ND	0.043	ND	ND	ND	ND	ND	ND	ND	3.6	0.012	ND	ND	3.8	ND	ND	3.6	ND	ND	ND
MW- 5	25-Sep-13	ND	ND	0.037	ND	ND	ND	ND	ND	ND	ND	3.3	0.011	ND	ND	3.6	ND	ND	3.2	ND	ND	0.029
MW- 5	27-Mar-13	ND	0.003	0.038	ND	ND	ND	ND	ND	ND	ND	3.3	ND	ND	ND	3.6	ND	ND	3.4	ND	ND	ND
MW- 5	19-Sep-12	ND	0.002	0.036	ND	ND	ND	ND	ND	ND	ND	3.0	0.023	ND	ND	3.1	ND	ND	2.9	ND	ND	0.016
MW- 5	27-Mar-12	ND	ND	0.039	ND	ND	ND	ND	0.11	ND	2.7	0.037	ND	ND	3.1	ND	ND	2.3	ND	ND	0.014	
MW- 5	28-Sep-11	ND	0.002	0.038	ND	ND	ND	ND	0.006	0.07	0.001	3.2	0.018	ND	0.001	3.4	ND	ND	3.3	ND	ND	ND
MW- 5	28-Mar-11	ND	0.002	0.035	ND	ND	ND	ND	0.002	ND	ND	3.3	0.0068	ND	0.001	3.2	ND	ND	3.0	ND	ND	0.014
MW- 5	5-Oct-10	ND	0.002	0.037	ND	ND	ND	ND	0.003	0.06	0.001	3.2	0.008	ND	0.001	3.3	ND	ND	3.3	ND	ND	0.025
MW- 5	25-Mar-10	ND	0.002	0.037	ND	ND	ND	ND	0.004	ND	0.001	3.4	0.007	ND	0.001	3.5	ND	ND	3.4	ND	ND	0.015
MW- 5	28-Sep-09	ND	ND	0.037	ND	ND	ND	ND	ND	0.20	ND	3.2	0.013	ND	ND	3.5	ND	ND	3.1	ND	ND	ND
MW- 5	25-Mar-09	ND	ND	0.042	ND	ND	ND	ND	ND	0.11	ND	3.6	0.019	ND	ND	3.7	ND	ND	3.8	ND	ND	ND
MW- 5	11-Aug-08	ND	ND	0.038	ND	0.0005	ND	ND	ND	0.07	ND	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	16-Apr-08	ND	ND	0.038	ND	0.0005	ND	ND	ND	0.05	ND	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	10-Oct-07	ND	ND	0.039	ND	ND	ND	ND	ND	0.05	ND	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	10-Apr-07	ND	ND	0.041	ND	ND	ND	ND	ND	0.09	ND	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	25-Oct-06	ND	ND	0.038	ND	ND	ND	ND	ND	0.07	ND	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012
MW- 5	27-Apr-06	ND	ND	0.042	ND	ND	ND	ND	0.008	0.27	ND	0.031	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	10-Nov-05	ND	ND	0.041	ND	ND	ND	ND	ND	0.51	ND	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011
MW- 5	6-Apr-05	ND	ND	0.044	ND	ND	ND	ND	ND	0.21	ND	0.018	ND	ND*	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	0.17	ND	0.011	ND	ND*	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	29-Apr-04	ND	ND	0.052	ND	ND	ND	ND	0.007	4.90	0.011	0.320	ND	ND	ND	ND	ND	ND	ND	0.005	0.013	
MW- 5	8-Oct-03	ND	ND	0.046	ND	ND	ND	ND	ND	0.36	ND	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	23-Apr-03	ND	ND	0.040	ND	ND	ND	ND	ND	0.30	ND	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	8-Oct-02	ND	ND	0.039	ND	ND	ND	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	26-Mar-02	ND	ND	0.060	ND	ND	ND	0.015	0.007	0.17	ND	0.086	ND	0.022	0.0130	ND	ND	ND	ND	ND	0.100	
MW- 5	26-Mar-02	ND	ND	0.037	ND	ND	ND	ND	ND	0.03	ND	0.009	ND	0.008	ND	ND	ND	ND	ND	ND	ND	0.028

Table 3. Total Metals Analyses - Monitoring Wells

	Compound	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	
Location	MCL (mg/l):	0.006	0.010	2.000	0.0040	0.0050	0.100	--	1.300	0.30	0.015	--	0.05	0.002	--	0.05	0.10	--	0.002	--	5		
MW- 6	16-Sep-20	ND	0.0028	0.050	ND	ND	ND	ND	ND	38	ND	12	0.44	ND	ND	3.2	ND	ND	10	ND	ND	ND	
MW- 6	11-Mar-20	ND	0.0039	0.038	ND	ND	ND	ND	ND	18	ND	9.8	0.29	ND	ND	2.6	ND	ND	ND	ND	ND	ND	
MW- 6	16-Sep-19	ND	0.0060	0.065	ND	ND	ND	ND	ND	51	ND	7.9	0.31	ND	ND	2.6	ND	ND	14	ND	ND	0.016	
MW- 6	19-Mar-19	ND	0.0038	0.036	ND	ND	ND	ND	0.054	24	ND	9.2	0.34	ND	ND	2.7	ND	ND	13	ND	ND	0.032	
MW- 6	8-Oct-18	ND	0.0036	0.039	ND	ND	ND	ND	ND	39	ND	11	0.35	ND	ND	2.6	ND	ND	16	ND	ND	0.012j	
MW- 6	20-Mar-18	ND	0.0077	0.079	ND	ND	ND	ND	ND	43	ND	14	0.51	ND	ND	3.2	ND	ND	11	ND	ND	0.013	
MW- 6	20-Sep-17	ND	0.0068	0.071	ND	ND	ND	ND	ND	35	ND	12	0.62	ND	ND	3.3	ND	ND	9.0	ND	ND	0.015	
MW- 6	22-Mar-17	ND	0.0031	0.078	ND	ND	ND	ND	0.016	13	ND	11	0.60	ND	0.029	ND	ND	ND	9.3	ND	ND	0.044	
MW- 6	21-Sep-16	ND	0.0044	0.068	ND	ND	ND	ND	0.010	ND	24	ND	14.0	0.60	ND	ND	3.6	ND	ND	13	ND	ND	0.037
MW- 6	16-Mar-16	ND	0.0028	0.081	ND	ND	ND	ND	ND	15	ND	13.0	0.50	ND	ND	3.3	ND	ND	12	ND	ND	0.024	
MW- 6	23-Sep-15	ND	0.0035	0.064	ND	ND	ND	ND	ND	16	ND	8.8	0.47	ND	0.013	3.3	ND	ND	12	ND	ND	0.061	
MW- 6	24-Mar-15	ND	0.0053	0.077	ND	ND	ND	0.011	ND	16	ND	8.3	0.44	ND	0.011	2.5	ND	ND	12	ND	ND	0.025	
MW- 6	22-Sep-14	ND	0.0021	0.047	ND	ND	ND	0.014	ND	5.5	ND	5.4	0.24	ND	0.013	2.2	ND	ND	11	ND	ND	0.038	
MW- 6	25-Mar-14	ND	ND	0.050	ND	ND	ND	0.010	ND	3.4	ND	6.2	0.17	ND	0.016	2.4	ND	ND	13	ND	ND	0.031	
MW- 6	25-Sep-13	ND	ND	0.050	ND	ND	ND	ND	ND	1.9	ND	4.9	0.20	ND	0.012	2.2	ND	ND	10	ND	ND	0.053	
MW- 6	27-Mar-13	ND	ND	0.053	ND	ND	ND	0.012	ND	0.83	ND	5.6	0.11	ND	0.018	1.9	ND	ND	14	ND	ND	0.074	
MW- 6	19-Sep-12	ND	0.007	0.13	0.0022	ND	ND	ND	ND	22	ND	4.0	0.27	ND	ND	1.8	ND	ND	6.6	ND	ND	0.035	
MW- 6	27-Mar-12	ND	ND	0.03	ND	ND	ND	ND	ND	2.9	ND	4.3	0.12	ND	0.016	1.7	ND	ND	8.8	ND	ND	0.038	
MW- 6	28-Sep-11	ND	0.022	0.45	0.0060	0.0072	0.002	0.004	0.020	76	0.004	4.5	0.32	ND	0.005	2.1	ND	ND	6.3	ND	0.006	0.082	
MW- 6	28-Mar-11	ND	0.002	0.027	ND	0.0012	ND	0.008	0.001	3.5	ND	4.7	0.11	ND	0.012	1.7	ND	ND	8.7	ND	ND	0.037	
MW- 6	5-Oct-10	ND	0.002	0.060	0.0014	0.0073	ND	0.014	0.004	3.6	0.001	5.4	0.14	ND	0.021	2.8	ND	ND	5.0	ND	ND	0.150	
MW- 6	25-Mar-10	ND	0.002	0.046	ND	0.0007	ND	0.003	0.002	3.4	ND	4.2	0.15	ND	0.005	1.9	ND	ND	6.9	ND	ND	0.028	
MW- 6	28-Sep-09	ND	0.005	0.038	ND	ND	ND	0.013	ND	5.5	ND	4.3	0.24	ND	0.014	2.1	ND	ND	8.3	ND	ND	0.030	
MW- 6	25-Mar-09	ND	ND	0.048	ND	ND	ND	0.008	ND	4.5	ND	4.1	0.27	ND	0.008	2.1	ND	ND	9.2	ND	ND	0.035	
MW- 6	11-Aug-08	ND	ND	0.043	0.0002	0.0012	ND	0.010	ND	3.68	ND	3.5	0.35	ND	0.009	ND	ND	ND	ND	ND	ND	0.020	
MW- 6	16-Apr-08	ND	0.006	0.029	0.0004	0.0012	ND	0.074	ND	2.74	ND	5.2	0.52	ND	0.075	ND	ND	ND	ND	ND	ND	0.041	
MW- 6	10-Oct-07	ND	ND	0.067	ND	ND	ND	ND	ND	3.10	ND	12	0.12	ND	0.008	ND	ND	ND	ND	ND	ND	0.014	
MW- 6	10-Apr-07	ND	ND	0.040	ND	ND	ND	ND	ND	0.48	ND	0.04	ND	ND	0.008	ND	ND	ND	ND	ND	ND	0.030	
MW- 6	25-Oct-06	ND	ND	0.040	ND	0.0046	ND	0.032	ND	0.43	ND	39	0.39	ND	0.021	ND	ND	ND	ND	ND	ND	0.065	
MW- 6	27-Apr-06	ND	ND	0.043	ND	ND	ND	0.012	ND	0.14	ND	0.07	ND	0.016	ND	ND	ND	ND	ND	ND	ND	0.055	
MW- 6	10-Nov-05	ND	ND	0.043	ND	ND	ND	0.012	ND	0.31	ND	0.12	ND	0.017	ND	ND	ND	ND	ND	ND	ND	0.055	
MW- 6	6-Apr-05	ND	ND	0.040	ND	ND	ND	0.009	ND	0.29	ND	0.05	ND	ND*	ND	ND	ND	ND	ND	ND	ND	0.061	
MW- 6	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	0.08	ND	0.03	ND	ND*	ND	ND	ND	ND	ND	ND	ND	0.04	
MW- 6	29-Apr-04	ND	ND	0.028	ND	ND	ND	ND	ND	0.10	ND	0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.035	
MW- 6	8-Oct-03	ND	ND	0.048	ND	ND	ND	0.007	ND	0.11	ND	0.06	ND	0.017	ND	ND	ND	ND	ND	ND	ND	0.055	
MW- 6	23-Apr-03	ND	ND	0.049	ND	ND	ND	0.010	ND	0.22	ND	0.06	ND	0.019	ND	ND	ND	ND	ND	ND	ND	0.066	
MW- 6	8-Oct-02	ND	ND	0.060	ND	ND	ND	ND	ND	1.10	ND	0.16	ND	0.005	ND	ND	ND	ND	ND	ND	ND	ND	
MW- 6	26-Mar-02	ND	ND	0.054	ND	ND	ND	ND	ND	0.31	ND	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.032	

Table 3. Total Metals Analyses - Monitoring Wells

	Compound	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Location	MCL (mg/l):	0.006	0.010	2.000	0.0040	0.0050	0.100	--	1.300	0.30	0.015	--	0.05	0.002	--	--	0.05	0.10	--	0.002	--	5
MW- 7	30-Sep-20	ND	ND	0.070	ND	ND	ND	ND	ND	0.79	ND	2.6	0.130	ND	ND	0.65	ND	ND	3	ND	ND	0.16J
MW- 7	10-Mar-20	ND	ND	0.074	ND	ND	ND	ND	0.011	0.44	ND	3.3	0.130	ND	ND	0.62	ND	ND	3	ND	ND	0.028
MW- 7	10-Sep-19	ND	ND	0.120	ND	ND	ND	0.012	0.021	2.10	0.003	4.8	0.200	ND	ND	0.90	ND	ND	5	ND	ND	0.052
MW- 7	20-Mar-19	ND	ND	0.065	ND	ND	ND	ND	ND	2.20	ND	3.1	0.067	ND	0.078	0.53	ND	ND	3	ND	ND	0.025
MW- 7	8-Oct-18	ND	ND	0.071	ND	ND	ND	ND	ND	1.50	ND	2.4	0.053	ND	ND	0.61	ND	ND	3	ND	ND	0.029
MW- 7	23-Mar-18	ND	ND	0.062	ND	ND	ND	ND	ND	0.81	ND	2.2	0.044	ND	ND	0.53	ND	ND	3	ND	ND	0.025
MW- 7	18-Sep-17	ND	ND	0.084	ND	ND	ND	ND	0.039	1.0	0.008	2.8	0.049	ND	0.018	0.87	ND	ND	5	ND	ND	0.096
MW- 7	22-Mar-17	ND	ND	0.068	ND	ND	ND	ND	ND	0.36	ND	2.5	0.046	ND	ND	0.57	ND	ND	4	ND	ND	0.037
MW- 7	20-Sep-16	ND	ND	0.090	ND	ND	ND	ND	0.016	1.50	0.002	2.6	0.055	ND	ND	0.95	ND	ND	5	ND	ND	0.073
MW- 7	15-Mar-16	ND	ND	0.055	ND	ND	ND	ND	0.018	0.20	0.002	2.2	0.050	ND	ND	0.43	ND	ND	3	ND	ND	0.049
MW- 7	22-Sep-15	ND	0.005	0.086	ND	ND	ND	ND	ND	12	0.010	2.7	0.071	ND	ND	0.89	ND	ND	4	ND	0.011	0.049
MW- 7	23-Mar-15	ND	ND	0.051	ND	ND	ND	ND	ND	0.11	ND	2.2	0.046	ND	ND	0.41	ND	ND	2	ND	ND	0.031
MW- 7	22-Sep-14	ND	ND	0.079	ND	ND	ND	ND	ND	0.79	ND	2.9	0.052	ND	ND	0.77	ND	ND	4	ND	ND	0.038
MW- 7	24-Mar-14	ND	ND	0.051	ND	ND	ND	ND	ND	ND	ND	2.1	0.058	ND	ND	ND	ND	ND	2	ND	ND	0.013
MW- 7	24-Sep-13	ND	ND	0.073	ND	ND	ND	ND	0.014	2.50	0.002	2.7	0.054	ND	ND	0.80	ND	ND	4	ND	ND	0.043
MW- 7	26-Mar-13	ND	ND	0.044	ND	ND	ND	ND	ND	0.10	ND	2.0	0.050	ND	ND	ND	ND	ND	2	ND	ND	0.010
MW- 7	19-Sep-12	ND	0.029	0.150	0.0020	ND	0.046	0.010	0.022	89	0.036	3.9	0.120	0.0003	ND	1.70	ND	ND	3	ND	0.062	0.052
MW- 7	27-Mar-12	ND	ND	0.064	ND	ND	ND	ND	ND	0.16	ND	2.3	0.064	ND	ND	0.44	ND	ND	3	ND	ND	0.017
MW- 7	28-Sep-11	ND	ND	0.053	ND	ND	ND	0.005	0.020	0.12	0.003	1.9	0.048	ND	0.002	0.56	ND	ND	3	ND	ND	0.033
MW- 7	28-Mar-11	ND	ND	0.052	ND	ND	ND	0.006	0.005	0.07	0.001	2.2	0.060	ND	0.003	0.45	ND	ND	2	ND	ND	0.029
MW- 7	5-Oct-10	ND	ND	0.064	ND	ND	0.001	0.005	0.013	0.19	0.001	2.3	0.052	ND	0.003	0.76	ND	ND	4	ND	ND	0.033
MW- 7	24-Mar-10	ND	ND	0.064	ND	ND	ND	0.007	0.005	ND	0.001	2.7	0.077	ND	0.003	0.49	ND	ND	3	ND	ND	0.032
MW- 7	28-Sep-09	ND	ND	0.082	ND	ND	0.006	0.031	0.07	0.007	2.8	0.059	ND	ND	0.82	ND	ND	4	ND	ND	0.036	
MW- 7	26-Mar-09	ND	ND	0.065	ND	ND	ND	0.007	0.005	0.11	ND	2.5	0.066	ND	ND	0.60	ND	ND	3	ND	ND	0.024
MW- 7	11-Aug-08	ND	ND	0.082	0.0004	ND	ND	0.007	ND	0.06	ND	0.073	ND	0.003	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	16-Apr-08	ND	ND	0.055	0.0003	ND	ND	0.007	ND	0.04	ND	0.088	ND	0.003	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	10-Oct-07	ND	ND	0.056	ND	ND	ND	0.005	ND	0.54	ND	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013
MW- 7	10-Apr-07	ND	ND	0.067	ND	ND	ND	0.007	ND	0.06	ND	0.091	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017
MW- 7	25-Oct-06	ND	ND	0.061	ND	ND	ND	0.006	ND	0.84	ND	0.071	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.018
MW- 7	27-Apr-06	ND	ND	0.058	ND	ND	ND	0.008	0.005	0.25	ND	0.093	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011
MW- 7	10-Nov-05	ND	ND	0.061	ND	ND	ND	0.005	ND	0.33	ND	0.056	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012
MW- 7	6-Apr-05	ND	ND	0.068	ND	ND	ND	0.008	ND	0.13	ND	0.120	ND	ND*	ND	ND	ND	ND	ND	ND	ND	0.015
MW- 7	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	1.30	ND	0.068	ND	ND*	ND	ND	ND	ND	ND	ND	ND	0.011
MW- 7	29-Apr-04	ND	ND	0.047	ND	ND	ND	0.005	ND	0.75	ND	0.099	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	8-Oct-03	ND	ND	0.052	ND	ND	ND	ND	ND	1.70	ND	0.071	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	23-Apr-03	ND	ND	0.061	ND	ND	ND	0.005	ND	ND	ND	0.075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	8-Oct-02	ND	ND	0.057	ND	ND	ND	ND	ND	0.77	ND	0.065	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	26-Mar-02	ND	ND	0.039	ND	ND	ND	ND	ND	3.60	ND	0.069	ND	ND	0.0100	ND	ND	ND	ND	ND	ND	0.054

Table 3. Total Metals Analyses - Monitoring Wells

	Compound	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Location	MCL (mg/l):	0.006	0.010	2.000	0.0040	0.0050	0.100	--	1.300	0.30	0.015	--	0.05	0.002	--	0.05	0.10	-	0.002	--	5	
MW- 8	15-Sep-20	ND	0.006	0.021	ND	ND	ND	ND	ND	40	ND	4.2	0.21	ND	ND	ND	ND	6	ND	ND	0.010J	
MW- 8	10-Mar-20	ND	0.007	0.013	ND	ND	ND	ND	ND	55	ND	6.9	0.30	ND	ND	ND	ND	7	ND	ND	0.016J	
MW- 8	10-Sep-19	ND	0.007	0.021	ND	ND	ND	ND	ND	64	ND	6.1	0.30	ND	ND	ND	ND	8	ND	ND	0.034	
MW- 8	20-Mar-19	ND	ND	0.092	ND	ND	ND	ND	ND	0.24	ND	2.4	0.06	ND	ND	1.10	ND	ND	ND	ND	ND	0.031
MW- 8	8-Oct-18	ND	0.008	0.015	ND	ND	ND	ND	ND	50	ND	5.4	0.29	ND	ND	ND	ND	8	ND	ND	0.014J	
MW- 8	23-Mar-18	ND	0.008	0.021	ND	ND	ND	ND	0.010	47	ND	4.7	0.17	ND	ND	0.43	ND	ND	5	ND	ND	0.030
MW- 8	18-Sep-17	ND	0.009	0.014	ND	ND	ND	ND	ND	49	ND	4.3	0.19	ND	ND	ND	ND	6	ND	ND	0.029	
MW- 8	22-Mar-17	ND	0.004	0.019	ND	ND	ND	ND	ND	13	ND	5.0	0.11	ND	ND	0.78	ND	ND	4	ND	ND	0.026
MW- 8	20-Sep-16	ND	0.017	0.017	ND	ND	ND	ND	ND	71	ND	4.7	0.17	ND	ND	0.76	ND	ND	5	ND	ND	0.042
MW- 8	15-Mar-16	ND	0.015	0.011	ND	ND	ND	ND	ND	75	ND	5.8	0.19	ND	ND	ND	ND	5	ND	ND	0.034	
MW- 8	22-Sep-15	ND	0.0076	0.019	ND	ND	ND	ND	ND	45	ND	4.7	0.17	ND	ND	ND	ND	5	ND	ND	0.032	
MW- 8	23-Mar-15	ND	0.01	0.018	ND	ND	ND	ND	ND	48	ND	6.9	0.18	ND	ND	0.63	ND	ND	5	ND	ND	0.028
MW- 8	22-Sep-14	ND	0.0052	0.017	ND	ND	ND	ND	ND	30	ND	3.9	0.12	ND	ND	ND	ND	4	ND	ND	0.024	
MW- 8	24-Mar-14	ND	0.0053	0.013	ND	ND	ND	ND	ND	47	ND	6.1	0.20	ND	ND	ND	ND	5	ND	ND	0.016	
MW- 8	24-Sep-13	ND	0.011	0.018	ND	ND	ND	ND	ND	42	ND	4.8	0.19	ND	ND	ND	ND	5	ND	ND	0.018	
MW- 8	26-Mar-13	ND	0.005	0.017	ND	ND	ND	ND	ND	52	ND	4.9	0.19	ND	ND	ND	ND	5	ND	ND	ND	
MW- 8	19-Sep-12	ND	0.008	0.021	ND	ND	ND	ND	ND	36	ND	3.5	0.14	ND	ND	ND	ND	4	ND	ND	0.035	
MW- 8	27-Mar-12	ND	0.004	0.030	ND	ND	ND	ND	ND	18	ND	3.0	0.08	ND	ND	ND	ND	5	ND	ND	0.017	
MW- 8	28-Sep-11	ND	0.004	0.028	ND	ND	ND	0.003	0.003	33	0.800	4.2	0.14	ND	0.002	0.34	ND	ND	5	ND	ND	0.013
MW- 8	28-Mar-11	ND	0.003	0.021	ND	ND	ND	0.004	0.002	46	ND	4.9	0.18	ND	0.001	0.24	ND	ND	5	ND	ND	0.023
MW- 8	5-Oct-10	ND	0.028	0.024	ND	ND	0.001	0.003	0.007	44	0.003	2.9	0.11	0.0002	0.002	0.37	ND	ND	4	ND	0.003	0.033
MW- 8	24-Mar-10	ND	0.008	0.024	ND	ND	ND	0.005	0.003	55	0.001	5.8	0.21	ND	0.001	0.24	ND	ND	5	ND	ND	0.029
MW- 8	28-Sep-09	ND	ND	0.031	ND	ND	ND	ND	ND	19	ND	3.2	0.10	ND	ND	0.35	ND	ND	5	ND	ND	0.012
MW- 8	26-Mar-09	ND	ND	0.024	ND	ND	ND	ND	ND	35	ND	3.9	0.14	ND	ND	0.25	ND	ND	5	ND	ND	0.031
MW- 8	11-Aug-08	ND	ND	0.029	0.0001	0.0007	ND	0.004	ND	22.50	ND	0.12	ND	0.003	ND	ND	ND	ND	ND	ND	ND	
MW- 8	16-Apr-08	ND	ND	0.026	0.0001	0.0004	ND	0.006	0.004	23.60	ND	0.12	ND	0.003	ND	ND	ND	ND	ND	ND	ND	
MW- 8	10-Oct-07	ND	ND	0.033	ND	ND	ND	ND	ND	16	ND	0.09	ND	0.0002	ND	ND	ND	ND	ND	ND	0.014	
MW- 8	10-Apr-07	ND	ND	0.021	ND	ND	ND	ND	ND	34	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND	0.012	
MW- 8	25-Oct-06	ND	ND	0.026	ND	ND	ND	ND	ND	26	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND	0.014	
MW- 8	27-Apr-06	ND	ND	0.033	ND	ND	ND	ND	ND	30	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW- 8	10-Nov-05	ND	ND	0.033	ND	ND	ND	ND	ND	12	ND	0.10	ND	ND	ND	ND	ND	ND	ND	ND	0.012	
MW- 8	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	40	ND	0.14	ND	ND*	ND	ND	ND	ND	ND	ND	0.011	
MW- 8	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	0.10	ND	ND*	ND	ND	ND	ND	ND	ND	0.013	
MW- 8	29-Apr-04	ND	ND	0.024	ND	ND	ND	ND	ND	41	ND	0.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW- 8	8-Oct-03	ND	0.007	0.050	ND	ND	0.006	ND	55	ND	0.20	0.00031	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW- 8	23-Apr-03	ND	ND	0.046	ND	ND	ND	0.007	0.010	58	ND	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW- 8	8-Oct-02	ND	ND	0.045	ND	ND	ND	0.005	1.20	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	ND	

Table 3. Total Metals Analyses - Monitoring Wells

	Compound	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Location	MCL (mg/l):	0.006	0.010	2.000	0.0040	0.0050	0.100	--	1.300	0.30	0.015	--	0.05	0.002	--	--	0.05	0.10	--	0.002	--	5
MW- 9	15-Sep-20	ND	0.002	0.053	ND	ND	ND	ND	ND	25	ND	3.5	0.54	ND	ND	1.2	ND	ND	2	ND	ND	0.0121
MW- 9	10-Mar-20	ND	ND	0.043	ND	ND	ND	ND	ND	2.5	ND	1.6	0.22	ND	ND	1.3	ND	ND	4	ND	ND	0.088
MW- 9	10-Sep-19	ND	0.005	0.029	ND	ND	ND	ND	ND	18	ND	1.6	0.30	ND	ND	0.92	ND	ND	2	ND	ND	0.027
MW- 9	20-Mar-19	ND	0.003	0.040	ND	ND	ND	ND	ND	24	ND	3.3	0.60	ND	ND	0.97	ND	ND	2	ND	ND	0.019
MW- 9	8-Oct-18	ND	ND	0.071	ND	ND	ND	ND	ND	14	ND	4.6	0.57	ND	ND	1.2	ND	ND	3	ND	ND	0.023
MW- 9	23-Mar-18	ND	ND	0.051	ND	ND	ND	ND	0.025	3.2	ND	2.0	0.13	ND	ND	1.0	ND	ND	3	ND	ND	0.110
MW- 9	18-Sep-17	ND	0.004	0.046	ND	ND	ND	ND	ND	15	0.002	2.5	0.21	ND	0.013	1.3	ND	ND	3	ND	ND	0.074
MW- 9	22-Mar-17	ND	0.003	0.050	ND	ND	ND	ND	ND	8.5	ND	2.2	0.25	ND	ND	ND	ND	ND	4	ND	ND	0.076
MW- 9	20-Sep-16	ND	0.005	0.045	ND	ND	ND	ND	ND	11	ND	2.6	0.35	ND	ND	1.4	ND	ND	ND	ND	ND	0.058
MW- 9	15-Mar-16	ND	ND	0.062	ND	ND	ND	ND	ND	13	ND	3.8	0.27	ND	ND	1.2	ND	ND	4	ND	ND	0.035
MW- 9	22-Sep-15	ND	0.002	0.032	ND	ND	ND	ND	ND	4.4	ND	2.4	0.17	ND	ND	0.98	ND	ND	2	ND	ND	0.024
MW- 9	23-Mar-15	ND	ND	0.065	ND	ND	ND	ND	ND	8.4	ND	3.6	0.19	ND	ND	1.00	ND	ND	3	ND	ND	0.068
MW- 9	22-Sep-14	ND	ND	0.045	ND	ND	ND	ND	ND	0.29	ND	3.0	0.053	ND	ND	1.20	ND	ND	2	ND	ND	0.040
MW- 9	24-Mar-14	ND	ND	0.099	ND	ND	ND	ND	ND	ND	ND	4.4	0.040	ND	ND	1.40	ND	ND	4	ND	ND	0.091
MW- 9	24-Sep-13	ND	ND	0.020	ND	ND	ND	ND	ND	0.12	ND	1.3	ND	ND	ND	0.56	ND	ND	2	ND	ND	0.032
MW- 9	26-Mar-13	ND	ND	0.026	ND	ND	ND	ND	ND	0.15	ND	1.7	0.024	ND	ND	0.78	ND	ND	2	ND	ND	0.019
MW- 9	19-Sep-12	ND	ND	0.029	ND	ND	ND	ND	ND	0.11	ND	1.8	ND	ND	ND	1.0	ND	ND	2	ND	ND	0.052
MW- 9	27-Mar-12	ND	ND	0.025	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	0.9	ND	ND	2	ND	ND	0.027
MW- 9	28-Sep-11	ND	ND	0.038	ND	ND	ND	ND	0.003	0.13	ND	2.6	0.0120	ND	0.001	1.6	ND	ND	4	ND	ND	0.016
MW- 9	28-Mar-11	ND	ND	0.023	ND	ND	ND	ND	0.004	ND	ND	1.9	0.0033	ND	ND	1.2	ND	ND	3	ND	ND	0.027
MW- 9	5-Oct-10	ND	ND	0.034	ND	ND	ND	ND	0.004	ND	ND	2.8	0.0059	ND	0.001	2.3	ND	ND	4	ND	ND	0.043
MW- 9	24-Mar-10	ND	ND	0.032	ND	ND	ND	ND	0.003	0.28	ND	2.9	0.0029	ND	ND	1.9	ND	ND	3	ND	ND	0.029
MW- 9	28-Sep-09	ND	ND	0.037	ND	ND	ND	ND	ND	0.06	ND	3.9	ND	ND	ND	3.2	ND	ND	4	ND	ND	ND
MW- 9	26-Mar-09	ND	ND	0.067	ND	ND	ND	ND	ND	0.55	ND	7.3	0.0064	ND	ND	4.0	ND	ND	12	ND	ND	0.012
MW- 9	11-Aug-08	ND	ND	0.033	ND	ND	ND	ND	ND	0.41	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	16-Apr-08	ND	ND	0.056	ND	0.0001	ND	ND	ND	0.06	ND	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.030
MW- 9	10-Oct-07	ND	ND	0.035	ND	ND	ND	ND	ND	0.25	ND	0.0076	ND	ND	ND	ND	0.0054	ND	ND	0.022	ND	ND
MW- 9	10-Apr-07	ND	ND	0.039	ND	ND	ND	ND	ND	0.18	ND	0.0064	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	25-Oct-06	ND	ND	0.025	ND	ND	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013
MW- 9	27-Apr-06	ND	ND	0.035	ND	ND	ND	ND	ND	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	10-Nov-05	ND	ND	0.046	ND	ND	ND	ND	ND	0.17	ND	0.0065	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	0.17	ND	0.0073	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	0.22	ND	0.0051	ND	ND*	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	29-Apr-04	ND	ND	0.042	ND	ND	ND	ND	ND	0.33	ND	0.028	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	8-Oct-03	ND	ND	0.042	ND	ND	ND	ND	ND	0.37	ND	0.076	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	23-Apr-03	ND	ND	0.120	ND	ND	ND	ND	ND	2.10	ND	0.150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	8-Oct-02	ND	ND	0.034	ND	ND	ND	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	26-Mar-02	ND	ND	0.200	ND	ND	ND	ND	0.009	ND	0.08	ND	0.190	ND	0.006	0.0070	ND	ND	ND	ND	ND	0.092
MW- 9	26-Mar-02	ND	ND	0.046	ND	ND	ND	ND	ND	0.31	ND	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.061

Table 3. Total Metals Analyses - Monitoring Wells

	Compound	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc		
Location	MCL (mg/l):	0.006	0.010	2.000	0.0040	0.0050	0.100	--	1.300	0.30	0.015	--	0.05	0.002	--	0.05	0.10	--	0.002	--	5			
MW-10R	15-Sep-20	ND	ND	0.064	ND	ND	ND	ND	ND	ND	ND	1.2	0.035	ND	ND	1.0	ND	ND	31	ND	ND	0.019		
MW-10R	10-Mar-20	ND	ND	0.180	ND	ND	ND	ND	ND	ND	ND	4.5	0.120	ND	ND	2.2	ND	ND	80	ND	ND	0.046		
MW-10R	16-Sep-19	ND	ND	0.095	ND	ND	ND	ND	ND	ND	ND	1.9	0.048	ND	ND	1.1	ND	ND	24	ND	ND	0.024		
MW-10R	20-Mar-19	ND	0.004	0.015	ND	ND	ND	ND	ND	ND	ND	52	ND	6.5	0.310	ND	ND	ND	ND	7	ND	ND	0.014	
MW-10R	8-Oct-18	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	0.30	ND	2.0	0.054	ND	ND	1.2	ND	ND	53	ND	ND	0.027
MW-10R	23-Mar-18	ND	ND	0.23	ND	ND	ND	ND	0.039	1.6	0.0027	2.3	0.076	ND	ND	1.3	ND	ND	48	ND	ND	0.066		
MW-10R	18-Sep-17	ND	0.002	0.49	ND	ND	0.010	ND	0.018	4.3	0.0067	3.4	0.093	ND	0.015	1.9	ND	ND	90	ND	0.014	0.070		
MW-10R	22-Mar-17	ND	ND	0.21	ND	ND	ND	ND	0.013	2.4	0.0058	3.9	0.120	ND	0.014	ND	ND	ND	60	ND	ND	0.071		
MW-10R	20-Sep-16	ND	ND	0.13	ND	ND	ND	ND	0.015	ND	0.0031	2.5	0.072	ND	ND	1.4	ND	ND	36	ND	ND	0.078		
MW-10R	15-Mar-16	ND	ND	0.19	ND	ND	ND	ND	0.018	0.66	0.004	4.5	0.110	ND	ND	1.7	ND	ND	98	ND	ND	0.070		
MW-10R	22-Sep-15	ND	ND	0.12	ND	ND	ND	ND	ND	ND	ND	2.8	0.068	ND	ND	1.2	ND	ND	36	ND	ND	0.038		
MW-10R	23-Mar-15	ND	ND	0.24	ND	ND	ND	0.010	0.015	0.16	ND	5.2	0.140	ND	ND	1.9	ND	ND	89	ND	ND	0.070		
MW-10R	22-Sep-14	ND	ND	0.10	ND	ND	ND	ND	0.014	ND	ND	2.4	0.057	ND	ND	1.1	ND	ND	30	ND	ND	0.036		
MW-10R	24-Mar-14	ND	ND	0.10	ND	ND	ND	ND	ND	ND	ND	2.5	0.063	ND	ND	1.1	ND	ND	48	ND	ND	0.023		
MW-10R	24-Sep-13	ND	ND	0.09	ND	ND	ND	ND	ND	ND	ND	2.7	0.050	ND	ND	1.1	ND	ND	30	ND	ND	0.034		
MW-10R	26-Mar-13	ND	0.003	0.16	ND	ND	ND	ND	0.013	ND	ND	3.5	0.078	ND	ND	1.5	ND	ND	97	ND	ND	0.031		
MW-10R	19-Sep-12	ND	ND	0.21	ND	ND	ND	ND	0.037	0.29	0.002	4.2	0.130	ND	ND	1.6	ND	ND	60	ND	ND	0.083		
MW-10R	27-Mar-12	ND	ND	0.15	ND	ND	ND	ND	0.017	0.24	ND	4.0	0.110	ND	ND	1.2	ND	ND	45	ND	ND	0.042		
MW-10R	28-Sep-11	ND	0.001	0.11	ND	ND	0.001	0.005	0.019	ND	0.003	2.8	0.067	ND	0.004	1.3	ND	ND	58	ND	ND	0.023		
MW-10R	28-Mar-11	ND	0.001	0.16	0.0007	ND	ND	0.008	0.011	ND	0.001	4.5	0.10	ND	0.006	1.4	ND	ND	90	ND	ND	0.049		
MW-10R	5-Oct-10	ND	0.001	0.12	0.0005	ND	ND	0.006	0.016	0.05	0.002	2.8	0.08	ND	0.005	1.3	ND	ND	40	ND	ND	0.053		
MW-10R	24-Mar-10	ND	0.002	0.14	0.0005	ND	ND	0.008	0.015	ND	0.002	4.1	0.11	ND	0.006	1.3	ND	ND	92	ND	ND	0.047		
MW-10R	28-Sep-09	ND	ND	0.22	ND	ND	ND	0.010	0.028	0.05	0.006	5.3	0.12	ND	0.006	1.7	ND	ND	110	ND	ND	0.028		
MW-10R	26-Mar-09	ND	ND	0.20	ND	ND	0.007	0.010	0.013	3.20	0.004	4.1	0.12	ND	0.008	1.8	ND	ND	62	ND	0.011	0.041		
MW-10R	11-Aug-08	ND	ND	0.196	0.0012	0.0003	ND	0.008	ND	0.22	ND	ND	0.09	ND	0.006	ND	ND	ND	ND	ND	ND	0.022		
MW-10R	16-Apr-08	ND	ND	0.209	0.0014	0.0003	ND	0.011	ND	0.42	ND	ND	0.16	ND	0.006	ND	ND	ND	ND	ND	ND	0.025		
MW-10R	10-Oct-07	ND	ND	0.110	ND	ND	ND	ND	ND	0.57	ND	ND	0.06	ND	0.005	ND	0.0087	ND	ND	ND	ND	0.021		
MW-10R	10-Apr-07	ND	ND	0.200	ND	ND	ND	0.009	ND	0.31	ND	ND	0.13	ND	0.005	ND	ND	ND	ND	ND	ND	0.030		
MW-10R	25-Oct-06	ND	ND	0.140	ND	ND	ND	ND	0.006	0.25	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND	0.023		
MW-10R	27-Apr-06	ND	ND	0.440	ND	ND	ND	0.021	0.006	0.15	ND	ND	0.27	ND	0.010	ND	ND	ND	ND	ND	ND	0.045		
MW-10R	10-Nov-05	ND	ND	0.510	ND	ND	ND	0.024	0.006	0.33	ND	ND	0.28	ND	0.012	ND	ND	ND	ND	ND	ND	0.050		
MW-10R	6-Apr-05	ND	ND	0.320	ND	ND	ND	0.015	0.006	0.08	ND	ND	0.20	ND	ND**	ND	ND	ND	ND	ND	ND	0.052		
MW-10R	13-Oct-04	ND	ND	0.150	ND	ND	ND	0.011	0.006	0.16	ND	ND	0.16	ND	ND*	ND	ND	ND	ND	ND	ND	0.033		
MW-10R	29-Apr-04	ND	ND	0.340	ND	ND	ND	0.014	0.006	0.24	ND	ND	0.20	ND	ND	ND	ND	ND	ND	ND	ND	0.056		
MW-10R	8-Oct-03	ND	ND	0.150	ND	ND	ND	0.006	ND	ND	ND	ND	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND		
MW-10R	23-Apr-03	ND	ND	0.190	ND	ND	ND	0.007	ND	0.10	ND	ND	0.09	ND	0.006	ND	ND	ND	ND	ND	ND	0.005		
MW-10R	8-Oct-02	ND	ND	0.250	ND	ND	ND	0.010	ND	0.10	ND	ND	0.18	ND	0.009	ND	ND	ND	ND	ND	ND	0.005		

Table 3. Total Metals Analyses - Monitoring Wells



	Compound	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Location	MCL (mg/l):	0.006	0.010	2.000	0.0040	0.0050	0.100	--	1.300	0.30	0.015	--	0.05	0.002	--	0.05	0.10	--	0.002	--	5	
MW-11R	15-Sep-20	ND	ND	0.040	ND	ND	ND	ND	ND	1.3	ND	2.0	0.030	ND	0.014	5.9	ND	ND	110	ND	ND	0.024J
MW-11R	10-Mar-20	ND	0.003	0.057	ND	ND	ND	ND	ND	5.5	ND	3.3	0.085	ND	0.021	2.1	ND	ND	48	ND	ND	0.044
MW-11R	12-Sep-19	ND	0.015	0.120	0.0022	ND	ND	0.010	ND	28	ND	2.4	0.061	ND	0.020	1.8	ND	ND	54	ND	ND	0.049
MW-11R	19-Mar-19	ND	0.003	0.053	ND	ND	ND	0.014	ND	6.0	ND	2.6	0.047	ND	0.024	2.0	ND	ND	78	ND	ND	0.039
MW-11R	7-Oct-18	ND	0.032	0.190	0.0050	ND	ND	0.012	0.041	61	0.005	3.0	0.075	ND	0.032	2.0	ND	ND	50	ND	ND	0.110
MW-11R	20-Mar-18	ND	0.003	0.065	ND	ND	ND	0.013	0.079	6.0	0.002	3.0	0.077	ND	0.038	1.8	ND	ND	56	ND	ND	0.150
MW-11R	18-Sep-17	ND	0.003	0.052	ND	ND	ND	0.010	ND	6.0	ND	2.9	0.070	ND	0.042	1.9	ND	ND	40	ND	ND	0.096
MW-11R	21-Mar-17	ND	0.003	0.064	ND	ND	ND	0.012	ND	5.7	ND	3.7	0.110	ND	0.021	ND	ND	ND	40	ND	ND	0.031
MW-11R	21-Sep-16	ND	0.034	0.130	0.0047	ND	ND	0.012	0.064	54	0.008	3.3	0.085	ND	0.020	2.0	ND	ND	30	ND	ND	0.170
MW-11R	15-Mar-16	ND	ND	0.057	ND	ND	ND	0.011	0.011	4.8	ND	3.5	0.084	ND	0.021	1.7	ND	ND	34	ND	ND	0.066
MW-11R	22-Sep-15	ND	0.007	0.078	ND	ND	ND	0.016	0.021	10	0.003	3.6	0.075	ND	0.026	2.0	ND	ND	39	ND	ND	0.061
MW-11R	23-Mar-15	ND	0.004	0.066	ND	ND	ND	0.023	0.013	6.3	ND	4.3	0.076	ND	0.033	2.0	ND	ND	58	ND	ND	0.077
MW-11R	22-Sep-14	ND	0.005	0.069	ND	ND	ND	0.014	0.011	8.5	ND	3.8	0.077	ND	0.024	1.8	ND	ND	40	ND	ND	0.057
MW-11R	24-Mar-14	ND	0.003	0.065	ND	ND	ND	0.013	ND	4.9	ND	3.9	0.077	ND	0.023	1.8	ND	ND	34	ND	ND	0.036
MW-11R	24-Sep-13	ND	0.005	0.058	ND	ND	ND	0.011	ND	6.9	ND	3.3	0.068	ND	0.021	1.7	ND	ND	33	ND	ND	0.059
MW-11R	26-Mar-13	ND	0.006	0.065	ND	ND	ND	0.011	ND	8.0	ND	3.7	0.088	ND	0.021	1.7	ND	ND	38	ND	ND	0.032
MW-11R	19-Sep-12	ND	0.007	0.073	ND	ND	ND	0.014	ND	9.1	ND	3.8	0.087	ND	0.027	1.7	ND	ND	43	ND	ND	0.055
MW-11R	27-Mar-12	ND	0.006	0.073	ND	ND	ND	0.016	0.026	9.4	0.004	4.0	0.094	ND	0.032	1.8	ND	ND	40	ND	ND	0.150
MW-11R	28-Sep-11	ND	0.010	0.097	0.0032	0.0031	0.024	0.018	0.028	20	0.006	4.6	0.087	ND	0.031	2.8	ND	ND	41	ND	0.012	0.053
MW-11R	28-Mar-11	ND	0.004	0.073	0.0009	0.0009	0.003	0.021	0.002	6.7	0.001	5.1	0.098	ND	0.032	2.0	ND	ND	55	ND	ND	0.053
MW-11R	5-Oct-10	0.0005	0.021	0.130	0.0039	0.0056	0.031	0.026	0.039	35	0.018	5.8	0.12	0.0002	0.049	3.3	0.0006	ND	37	ND	0.017	0.280
MW-11R	24-Mar-10	0.0016	0.017	0.120	0.0026	0.0063	0.023	0.029	0.053	32	0.024	6.3	0.13	0.023	0.055	2.8	ND	ND	47	ND	0.012	0.540
MW-11R	28-Sep-09	ND	0.008	0.100	0.0024	ND	0.012	0.020	0.015	13	0.004	5.4	0.11	ND	0.035	2.7	ND	ND	39	ND	0.007	0.054
MW-11R	25-Mar-09	ND	0.015	0.180	0.0047	0.0088	0.046	0.034	0.033	28	0.016	7.5	0.15	0.0002	0.055	4.0	ND	ND	45	ND	0.025	0.160
MW-11R	11-Aug-08	ND	0.013	0.143	0.0042	0.0032	0.007	0.034	ND	18.4	0.003	0.11	ND	0.047	ND	ND	ND	ND	ND	0.006	0.070	
MW-11R	16-Apr-08	ND	0.010	0.131	0.0038	0.0043	0.003	0.039	ND	16.3	0.004	0.12	ND	0.053	ND	ND	ND	ND	0.002	0.073		
MW-11R	10-Oct-07	ND	0.012	0.240	0.0046	0.0051	0.020	0.047	ND	18	0.005	0.12	ND	0.064	ND	ND	ND	ND	0.013	0.099		
MW-11R	10-Apr-07	ND	0.010	0.180	0.0034	0.0058	0.014	0.046	ND	20	0.003	0.14	ND	0.063	ND	ND	ND	ND	0.009	0.120		
MW-11R	25-Oct-06	ND	ND	0.110	0.0047	0.0200	ND	0.056	ND	7.2	ND	0.14	ND	0.069	ND	ND	ND	ND	ND	ND	0.150	
MW-11R	27-Apr-06	ND	ND	0.120	0.0026	0.0200	ND	0.048	ND	12	ND	0.14	ND	0.067	ND	ND	ND	ND	ND	ND	0.093	
MW-11R	10-Nov-05	ND	0.005	0.150	0.0045	0.0200	ND	0.059	0.006	9.4	ND	0.13	ND	0.082	ND	ND	ND	ND	ND	ND	0.140	
MW-11R	6-Apr-05	ND	ND	0.094	0.0045	0.0200	ND	0.084	0.007	7.5	ND	0.19	ND	0.100	ND	ND	ND	ND	ND	ND	0.240	
MW-11R	13-Oct-04	ND	0.006	0.064	0.0040	0.0200	ND	0.051	ND	8.6	ND	0.12	ND	0.062	ND	ND	ND	ND	ND	ND	0.14	
MW-11R	29-Apr-04	ND	0.006	0.110	0.0046	0.0150	ND	0.095	ND	8.2	ND	0.19	ND	0.110	ND	ND	ND	ND	ND	ND	0.200	
MW-11R	26-Mar-02	ND	ND	0.290	0.0040	ND	ND	0.011	ND	70	ND	0.29	ND	0.013	0.0140	ND	ND	ND	ND	ND	0.040	

Table 3. Total Metals Analyses - Monitoring Wells



	Compound	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	
Location	MCL (mg/l):	0.006	0.010	2.000	0.0040	0.0050	0.100	--	1.300	0.30	0.015	--	0.05	0.002	--	0.05	0.10	--	0.002	--	5		
MW-12R	15-Sep-20	ND	0.010	0.170	ND	ND	ND	ND	ND	69	ND	38	0.74	ND	ND	12	ND	ND	72	ND	ND	0.012J	
MW-12R	10-Mar-20	ND	0.006	0.150	ND	ND	ND	ND	ND	10	ND	26	0.36	ND	ND	10	ND	ND	32	ND	ND	0.023	
MW-12R	12-Sep-19	ND	0.029	0.170	ND	ND	ND	ND	0.051	72	ND	32	0.56	ND	ND	13	ND	ND	66	ND	ND	0.063	
MW-12R	20-Mar-19	ND	0.011	0.200	ND	ND	0.016	0.016	0.010	89	ND	36	0.99	ND	ND	7.4	ND	ND	78	ND	ND	0.023	
MW-12R	7-Oct-18	ND	0.010	0.170	ND	ND	ND	0.015	ND	56	ND	27	0.81	ND	ND	7.7	ND	ND	57	ND	ND	0.018J	
MW-12R	23-Mar-18	ND	0.011	0.140	ND	ND	ND	ND	ND	17	ND	29	0.50	ND	ND	9.5	ND	ND	41	ND	ND	0.020	
MW-12R	20-Sep-17	ND	0.042	0.150	ND	ND	ND	0.010	ND	78	ND	29	0.40	ND	ND	12	ND	ND	55	ND	ND	0.018	
MW-12R	21-Mar-17	ND	0.026	0.230	ND	ND	ND	0.012	ND	58	ND	34	0.63	ND	ND	ND	ND	ND	54	ND	ND	0.018	
MW-12R	20-Sep-16	ND	0.051	0.150	ND	ND	ND	0.011	ND	79	ND	28	0.45	ND	ND	ND	ND	ND	58	ND	ND	0.026	
MW-12R	15-Mar-16	ND	0.007	0.110	ND	ND	ND	ND	ND	10	ND	18	0.11	ND	ND	8.0	ND	ND	24	ND	ND	0.027	
MW-12R	22-Sep-15	ND	0.027	0.140	ND	ND	ND	0.010	ND	44	ND	26	0.330	ND	ND	13.0	ND	ND	47	ND	ND	0.017	
MW-12R	23-Mar-15	ND	0.0067	0.160	ND	ND	ND	ND	ND	40	ND	34	0.420	ND	ND	14.0	ND	ND	57	ND	ND	0.016	
MW-12R	22-Sep-14	ND	0.048	0.160	ND	ND	ND	0.011	ND	68	ND	32	0.430	ND	ND	ND	ND	ND	61	ND	ND	0.018	
MW-12R	24-Mar-14	ND	ND	0.160	ND	ND	ND	ND	ND	2.2	ND	27	0.220	ND	ND	9.9	ND	ND	31	ND	ND	ND	
MW-12R	24-Sep-13	ND	0.019	0.210	ND	ND	ND	ND	ND	46	ND	47	0.390	ND	ND	23.0	ND	ND	82	ND	ND	0.013	
MW-12R	26-Mar-13	ND	0.007	0.270	ND	ND	ND	ND	ND	21	ND	61	0.470	ND	ND	23.0	ND	ND	82	ND	ND	ND	
MW-12R	19-Sep-12	ND	0.015	0.270	ND	ND	ND	ND	ND	35	ND	66	0.440	ND	ND	ND	ND	ND	100	ND	ND	0.015	
MW-12R	27-Mar-12	ND	0.013	0.220	ND	ND	ND	ND	ND	33	ND	62	0.410	ND	ND	ND	ND	ND	90	ND	ND	0.014	
MW-12R	28-Sep-11	ND	0.001	0.120	ND	ND	ND	0.002	0.002	0.7	ND	18	0.071	ND	0.001	11.0	ND	ND	22	ND	ND	ND	
MW-12R	28-Mar-11	ND	0.003	0.096	ND	ND	0.001	0.001	0.005	2.8	ND	21	0.028	ND	0.001	12.0	ND	ND	40	ND	ND	0.016	
MW-12R	5-Oct-10	ND	0.002	0.076	ND	ND	0.001	0.001	0.001	0.9	ND	20	0.046	ND	0.002	19.0	ND	ND	41	ND	ND	0.013	
MW-12R	24-Mar-10	ND	0.003	0.290	ND	ND	0.002	0.006	0.003	1.5	ND	93	0.46	ND	0.004	30.0	ND	ND	130	ND	ND	0.016	
MW-12R	28-Sep-09	ND	0.019	0.360	ND	ND	ND	0.011	0.006	30	ND	80	0.55	ND	0.007	35.0	ND	ND	140	ND	ND	ND	
MW-12R	25-Mar-09	ND	0.009	0.290	ND	ND	ND	0.007	ND	23	ND	97	0.31	ND	0.005	37.0	ND	ND	170	ND	ND	0.012	
MW-12R	11-Aug-08	ND	ND	0.314	ND	ND	0.002	0.008	ND	10	ND	47	ND	ND	0.008	ND	ND	ND	ND	ND	ND	ND	
MW-12R	16-Apr-08	ND	ND	0.244	0.0006	ND	0.001	0.003	0.005	0.4	ND	16	ND	ND	0.004	ND	ND	ND	ND	ND	ND	ND	
MW-12R	10-Oct-07	ND	ND	0.250	ND	ND	ND	ND	ND	20	ND	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-12R	10-Apr-07	ND	0.005	0.290	ND	ND	ND	0.008	ND	7.6	ND	45	ND	0.007	ND	ND	ND	ND	ND	ND	ND	0.013	
MW-12R	25-Oct-06	ND	ND	0.270	ND	ND	ND	0.005	0.010	9.3	0.002	39	ND	0.009	ND	ND	ND	ND	ND	ND	ND	0.022	
MW-12R	27-Apr-06	ND	0.013	0.320	ND	ND	ND	0.005	0.014	6	ND	42	ND	0.008	ND	ND	ND	ND	ND	ND	ND	ND	
MW-12R	10-Nov-05	ND	0.007	0.240	ND	ND	ND	0.009	0.009	15	ND	36	ND	0.008	ND	ND	ND	ND	ND	ND	ND	ND	
MW-12R	6-Apr-05	ND	ND	0.200	ND	ND	ND	ND	ND	1.2	ND	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-12R	13-Oct-04	ND	0.009	0.093	ND	ND	ND	0.007	ND	18	ND	35	ND	ND*	ND	ND	ND	ND	ND	ND	ND	ND	
MW-12R	29-Apr-04	ND	0.010	0.210	ND	ND	ND	ND	ND	7.8	ND	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-12R	8-Oct-03	ND	0.008	0.300	ND	ND	ND	0.007	0.007	15	ND	33	ND	0.008	ND	ND	ND	ND	ND	ND	ND	ND	
MW-12R	23-Apr-03	ND	ND	0.510	ND	ND	ND	0.013	0.011	7.3	ND	77	ND	0.012	ND	ND	ND	ND	ND	ND	ND	ND	
MW-12R	8-Oct-02	ND	ND	0.200	ND	ND	ND	0.008	0.005	8.3	ND	24	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	
MW-13	16-Sep-20	ND	ND	0.038	ND	ND	ND	ND	ND	ND	ND	8.2	0.13	ND	ND	2.2	ND	ND	19	ND	ND	ND	
MW-13	11-Mar-20	ND	ND	0.045	ND	ND	ND	ND	ND	ND	ND	7.4	0.01	ND	ND	2.2	ND	ND	12	ND	ND	0.023	
MW-13	11-Sep-19	ND	ND	0.040	ND	ND	ND	ND	ND	ND	ND	7.7	0.17	ND	0.014	2.2	ND	ND	16	ND	ND	0.055	
MW-13	19-Mar-19	ND	ND	0.037	ND	ND	ND	ND	ND	ND	ND	8.0	ND	7.9	0.19	ND	0.014	2.4	ND	ND	17	ND	ND
MW-13	7-Oct-18	ND	ND	0.042	ND	ND	ND	ND	ND	ND	ND	41	ND	6.9	0.22	ND	0.011	2.3	ND	ND	16	ND	ND
MW-13	19-Mar-18	ND	ND	0.040	ND	ND	ND	ND	ND	ND	ND	52	ND	2.6	0.01	ND	ND	2.2	ND	ND	4	ND	ND
MW-13	19-Sep-17	ND	ND	0.038	ND	ND	ND	ND	ND	ND	ND	50	ND	7.7	0.100	ND	ND	2.3	ND	ND	12	ND	ND
MW-13	21-Mar-17	ND	ND	0.045	ND	ND	ND	ND	ND	ND	ND	40	ND	7.9	ND	ND	ND	ND	ND	11	ND	ND	0.021
MW-13	20-Sep-16	ND	ND	0.043	ND	ND	ND	ND	ND	ND	ND	95	ND	8.4	0.15	ND	ND	2.3	ND	ND	14	ND	ND
MW-13	16-Mar-16	ND	ND	0.041	ND	ND	ND	ND	ND	ND	ND	140	ND	8.8	0.14	ND	0.013	2.7	ND	ND	13	ND	ND
MW-13	23-Sep-15	ND	ND	0.058	ND	ND	ND	ND	ND	ND	ND	1.1	ND	7.6	0.17	ND	0.011	2.6	ND	ND	14	ND	ND
MW-13	24-Mar-15	ND	ND	0.052	ND	ND	ND	ND	ND	ND	ND	6.6	ND	8.5	0.20	ND	0.014	2.7	ND	ND	15	ND	ND
MW-13	22-Sep-14	ND	0.0047	0.067	ND	ND	0.013	ND	ND	ND	ND	7.1	0.003	6.8	0.23	ND	ND	2.7	ND	ND	16	ND	ND
MW-13	24-Mar-14	ND	ND	0.067	ND	ND	ND	ND	ND	ND	ND	1.0	ND	6.0	0.10	ND	ND	2.7	ND	ND	24	ND	ND

Table 4. Total Metals Analyses - Surface Water

Compound		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Toxic Substances Criteria For Ambient Surface Waters (mg/L)	--	0.150	--	--		0.00025	--	--	0.009	--	0.0025	--	--	0.00077	0.052	--	0.005	--	--	--	0.120	
Stream-3 16-Sep-20	ND	ND	0.042	ND	ND	ND	ND	ND	ND	1.9	ND	3.3	0.08	ND	ND	2.0	ND	ND	12	ND	ND	ND
Stream-3 11-Mar-20	ND	ND	0.046	ND	0.00082J	ND	ND	ND	ND	0.6	ND	4.5	0.06	ND	ND	2.4	ND	ND	17	ND	ND	0.024
Stream-3 10-Sep-19	ND	ND	0.034	ND	ND	ND	ND	ND	ND	0.6	ND	4.8	0.03	ND	ND	4.7	ND	ND	14	ND	ND	0.012
Stream-3 19-Mar-19	ND	ND	0.037	ND	0.00050J	ND	ND	ND	ND	0.7	ND	3.3	0.09	ND	ND	1.9	ND	ND	14	ND	ND	0.028
Stream-3 8-Oct-18	ND	ND	0.042	ND	ND	ND	ND	ND	ND	1.3	ND	3.5	0.06	ND	ND	2.6	ND	ND	18	ND	ND	0.021
Stream-3 19-Mar-18	ND	ND	0.045	ND	0.00057	ND	ND	ND	ND	0.8	ND	3.9	0.08	ND	ND	2.4	ND	ND	20	ND	ND	0.027
Stream-3 19-Sep-17	ND	0.0038	0.071	ND	0.0056	ND	0.01	ND	ND	13.0	0.0023	5.6	0.39	ND	ND	6.4	ND	ND	24	ND	ND	0.032
Stream-3 21-Mar-17	ND	ND	0.050	ND	0.0008	ND	ND	ND	ND	0.92	ND	6.7	0.11	ND	ND	4.9	ND	ND	24	ND	ND	0.029
Stream-3 21-Sep-16	ND	ND	0.048	ND	ND	ND	ND	ND	ND	0.93	ND	11.0	0.06	ND	ND	9.0	ND	ND	59	ND	ND	0.015
Stream-3 16-Mar-16	ND	ND	0.048	ND	0.00071	ND	ND	ND	ND	0.89	ND	5.7	0.09	ND	ND	3.7	ND	ND	26	ND	ND	0.023
Stream-3 23-Sep-15	ND	ND	0.150	ND	0.0004	ND	ND	ND	ND	0.34	ND	100.0	0.10	ND	ND	91.0	ND	ND	280	ND	ND	0.088
Stream-3 24-Mar-15	ND	ND	0.047	ND	0.00089	ND	ND	ND	ND	0.67	ND	6.0	0.09	ND	ND	3.6	ND	ND	26	ND	ND	0.034
Stream-3 22-Sep-14	ND	ND	0.047	ND	ND	ND	ND	ND	ND	1.80	ND	14.0	0.13	ND	ND	12.0	ND	ND	56	ND	ND	0.019
Stream-3 25-Mar-14	ND	ND	0.057	ND	0.00110	ND	ND	ND	ND	0.93	ND	6.6	0.11	ND	ND	4.3	ND	ND	27	ND	ND	0.023
Stream-3 25-Sep-13	ND	ND	0.047	ND	ND	ND	ND	ND	ND	1.70	ND	16.0	0.19	ND	ND	13.0	ND	ND	64	ND	ND	0.041
Stream-3 27-Mar-13	0.003	ND	0.045	ND	0.00110	ND	ND	ND	ND	0.81	ND	5.3	0.10	ND	ND	3.0	ND	ND	31	ND	ND	0.022
Stream-3 19-Sep-12	ND	ND	0.062	ND	ND	ND	ND	ND	ND	1.90	ND	14.0	0.22	ND	ND	10.0	ND	ND	58	ND	ND	0.019
Stream-3 27-Mar-12	ND	ND	0.048	ND	ND	ND	ND	ND	ND	1.90	ND	80.0	0.55	ND	0.0130	78.0	ND	ND	230	ND	ND	0.017
Stream-3 28-Sep-11	ND	0.0017	0.048	ND	ND	0.001	0.005	0.0012	ND	2.10	0.001	21.0	0.59	ND	0.0079	22.0	ND	ND	65	ND	ND	ND
Stream-3 28-Mar-11	ND	0.0005	0.046	ND	0.00070	ND	0.004	0.0008	ND	0.87	ND	5.5	0.11	ND	0.0055	3.4	ND	ND	23	ND	ND	0.028
Stream-3 5-Oct-10	ND	0.001	0.055	ND	0.00080	0.001	0.006	0.0011	ND	1.40	0.001	45.0	0.24	ND	0.0087	47.0	ND	ND	140	ND	ND	0.031
Stream-3 25-Mar-10	ND	0.001	0.048	ND	0.00060	0.001	0.005	0.001	ND	1.10	ND	5.6	0.14	ND	0.0056	3.0	ND	ND	21	ND	ND	0.025
Stream-3 28-Sep-09	ND	ND	0.050	ND	ND	ND	ND	ND	ND	2.00	ND	9.6	0.18	ND	ND	7.2	ND	ND	40	ND	ND	ND
Stream-3 26-Mar-09	ND	ND	0.051	ND	ND	ND	ND	ND	ND	0.99	ND	8.8	0.14	ND	0.0053	4.4	ND	ND	33	ND	ND	0.012
Stream-3 11-Aug-08	ND	ND	0.051	0.0002	0.00010	ND	0.002	ND	ND	2.11	ND	0.18	ND	0.0050	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3 16-Apr-08	ND	ND	0.053	0.0003	0.00040	ND	0.003	ND	ND	2.43	ND	0.17	ND	0.0060	ND	ND	ND	ND	ND	ND	ND	0.014
Stream-3 11-Oct-07	ND	ND	0.096	ND	ND	ND	ND	ND	ND	0.52	ND	0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3 10-Apr-07	ND	ND	0.054	ND	ND	ND	ND	ND	ND	1.20	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.021
Stream-3 25-Oct-06	ND	ND	0.050	ND	ND	ND	ND	ND	ND	1.90	ND	0.19	ND	0.0054	ND	ND	ND	ND	ND	ND	ND	0.020
Stream-3 27-Apr-06	ND	ND	0.056	ND	ND	ND	ND	0.005	ND	2.30	ND	0.21	ND	0.0054	ND	ND	ND	ND	ND	ND	ND	0.016
Stream-3 10-Nov-05	ND	ND	0.069	ND	ND	ND	ND	0.006	ND	1.60	ND	0.26	ND	0.0079	ND	ND	ND	ND	ND	ND	ND	0.024
Stream-3 6-Apr-05	ND	ND	0.057	ND	ND	ND	ND	ND	ND	1.20	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.031
Stream-3 13-Oct-04	ND	ND	ND	ND*	ND	ND	ND	ND	ND	1.80	ND	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.018
Stream-3 29-Apr-04	ND	ND	0.048	ND	ND	ND	ND	ND	ND	3.10	ND	6.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014
Stream-3 8-Oct-03	ND	ND	0.060	0.060	ND	ND	ND	ND	ND	2.60	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3 23-Apr-03	ND	ND	0.061	ND	ND	ND	ND	ND	ND	1.30	ND	0.15	ND	0.0069	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3 8-Oct-02	ND	ND	0.180	ND	ND	ND	0.018	ND	ND	2.10	ND	1.40	ND	0.0240	ND	ND	ND	ND	ND	ND	ND	0.0110
Stream-3 26-Mar-02	ND	0.008	0.041	0.008	0.01300	ND	0.007	ND	ND	1.20	ND	0.18	ND	0.0310	0.0490	ND	ND	ND	0.0070	0.056	ND	ND
Stream-3 26-Mar-02	ND	ND	0.041	ND	ND	ND	ND	ND	ND	1.10	ND	0.25	ND	ND	0.006	ND	ND	ND	ND	ND	ND	0.049

Table 4. Total Metals Analyses - Surface Water

Compound		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Toxic Substances Criteria For Ambient Surface Waters (mg/L)		--	0.150	--	--	0.00025	--	--	0.009	--	0.0025	--	--	0.00077	0.052	--	0.005	--	--	--	0.120	
Stream-4	16-Sep-20	ND	ND	0.043	ND	ND	ND	ND	2.00	ND	3.8	0.08	ND	ND	2.2	ND	ND	11	ND	ND	ND	
Stream-4	11-Mar-20	ND	ND	0.044	ND	0.00076J	ND	ND	ND	0.57	ND	2.8	0.06	ND	ND	1.6	ND	ND	13	ND	ND	0.023
Stream-4	10-Sep-19	ND	ND	0.028	ND	ND	ND	ND	0.89	ND	1.9	0.03	ND	ND	2.1	ND	ND	27	ND	ND	0.020	
Stream-4	19-Mar-19	ND	ND	0.038	ND	0.00052J	ND	ND	ND	0.67	ND	2.6	0.07	ND	ND	1.6	ND	ND	13	ND	ND	0.031
Stream-4	8-Oct-18	ND	ND	0.048	ND	ND	ND	ND	ND	1.4	ND	3.3	0.062	ND	ND	2.8	ND	ND	18	ND	ND	0.019
Stream-4	19-Mar-18	ND	ND	0.044	ND	0.00066	ND	ND	ND	0.62	ND	3.3	0.07	ND	ND	2.0	ND	ND	19	ND	ND	0.028
Stream-4	19-Sep-17	ND	0.0030	0.170	ND	ND	ND	ND	46	ND	18.0	1.30	ND	ND	6.6	ND	ND	26	ND	ND	0.097	
Stream-4	21-Mar-17	ND	ND	0.048	ND	0.00087	ND	ND	ND	0.86	ND	4.6	ND	ND	ND	ND	ND	ND	21	ND	ND	0.027
Stream-4	21-Sep-16	ND	ND	0.047	ND	ND	ND	ND	ND	0.87	ND	3.9	0.03	ND	ND	2.9	ND	ND	41	ND	ND	0.015
Stream-4	16-Mar-16	ND	ND	0.047	ND	0.00072	ND	ND	ND	0.86	ND	3.7	0.08	ND	ND	2.0	ND	ND	20	ND	ND	0.023
Stream-4	23-Sep-15	ND	ND	0.037	ND	ND	ND	ND	ND	2.10	ND	6.6	0.12	ND	ND	ND	ND	ND	43	ND	ND	0.049
Stream-4	24-Mar-15	ND	ND	0.046	ND	0.00089	ND	ND	ND	0.60	ND	3.6	0.08	ND	ND	1.9	ND	ND	21	ND	ND	0.031
Stream-4	22-Sep-14	ND	ND	0.040	ND	ND	ND	ND	ND	2.30	ND	6.6	0.10	ND	ND	4.5	ND	ND	37	ND	ND	0.024
Stream-4	25-Mar-14	ND	ND	0.053	ND	0.00100	ND	ND	ND	0.79	ND	3.8	0.09	ND	ND	2.1	ND	ND	20	ND	ND	0.025
Stream-4	25-Sep-13	ND	ND	0.042	ND	ND	ND	ND	ND	1.30	ND	2.8	0.05	ND	ND	1.9	ND	ND	30	ND	ND	0.039
Stream-4	27-Mar-13	ND	ND	0.046	ND	0.00100	ND	ND	ND	0.81	ND	3.5	0.09	ND	ND	2.1	ND	ND	26	ND	ND	0.022
Stream-4	19-Sep-12	ND	ND	0.053	ND	ND	ND	ND	ND	0.93	ND	3.7	0.07	ND	ND	ND	ND	ND	34	ND	ND	0.020
Stream-4	27-Mar-12	ND	ND	0.046	ND	ND	ND	ND	ND	1.60	ND	9.6	ND	ND	ND	7.9	ND	ND	33	ND	ND	0.039
Stream-4	28-Sep-11	ND	0.0018	0.047	ND	ND	0.001	0.005	0.0012	2.10	0.001	21.0	0.58	ND	0.0081	22.0	ND	ND	63	ND	ND	ND
Stream-4	28-Mar-11	ND	0.0005	0.048	ND	0.00080	0.001	0.004	0.0008	1.00	ND	5.3	0.11	ND	0.0056	2.9	ND	ND	24	ND	ND	0.029
Stream-4	5-Oct-10	ND	0.001	0.054	ND	0.00080	0.001	0.006	0.0012	1.40	0.001	44.0	0.24	ND	0.0083	46.0	ND	ND	130	ND	ND	0.028
Stream-4	25-Mar-10	ND	0.001	0.048	ND	0.00050	0.001	0.004	0.001	1.10	ND	5.1	0.14	ND	0.0054	2.8	ND	ND	20	ND	ND	0.028
Stream-4	28-Sep-09	ND	ND	0.043	ND	ND	ND	ND	ND	2.00	ND	5.7	0.15	ND	ND	4.2	ND	ND	29	ND	ND	ND
Stream-4	26-Mar-09	ND	ND	0.050	ND	ND	ND	ND	ND	1.10	ND	3.9	0.12	ND	ND	2.3	ND	ND	23	ND	ND	0.011
Stream-4	11-Aug-08	ND	ND	0.046	ND	ND	ND	ND	ND	1.86	ND	0.10	ND	0.0020	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	16-Apr-08	ND	ND	0.049	0.0002	0.00030	ND	0.003	ND	2.28	ND	0.15	ND	0.0040	ND	ND	ND	ND	ND	ND	ND	0.012
Stream-4	11-Oct-07	ND	ND	0.057	ND	ND	ND	ND	ND	2.50	ND	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	10-Apr-07	ND	ND	0.051	ND	ND	ND	ND	ND	1.20	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.020
Stream-4	25-Oct-06	ND	ND	0.071	ND	ND	0.006	0.007	0.007	8.20	0.007	0.32	ND	ND	ND	ND	ND	ND	ND	ND	0.013	0.043
Stream-4	27-Apr-06	ND	ND	0.055	ND	ND	ND	ND	ND	2.40	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014
Stream-4	10-Nov-05	ND	ND	0.065	ND	ND	ND	0.005	ND	1.40	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.028
Stream-4	6-Apr-05	ND	ND	0.055	ND	ND	ND	ND	ND	1.00	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.048
Stream-4	13-Oct-04	ND	ND	ND*	ND	ND	ND	ND	ND	1.30	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012
Stream-4	29-Apr-04	ND	ND	0.044	ND	ND	ND	ND	ND	2.70	ND	3.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014
Stream-4	8-Oct-03	ND	ND	0.053	ND	ND	ND	ND	ND	1.60	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	23-Apr-03	ND	ND	0.064	ND	ND	ND	ND	ND	1.30	ND	0.14	ND	0.0061	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	8-Oct-02	ND	ND	0.064	ND	ND	0.022	ND	9.00	ND	1.50	ND	0.0050	ND	ND	ND	ND	ND	0.0050	ND	ND	ND
Stream-4	26-Mar-02	ND	ND	0.042	ND	ND	0.008	ND	1.40	ND	0.83	ND	0.0170	0.015	ND	ND	ND	ND	ND	ND	ND	0.029

Table 4. Total Metals Analyses - Surface Water



Compound		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Toxic Substances Criteria For Ambient Surface Waters (mg/L)	--	0.150	--	--		0.00025	--	--	0.009	--	0.0025	--	--	0.00077	0.052	--	0.005	--	--	--	0.120	
Stream-7 16-Sep-20	ND	0.003	0.079	ND		ND	ND	ND	4.00	ND	33	0.39	ND	ND	13	ND	ND	30	ND	ND	ND	
Stream-7 10-Mar-20	ND	ND	0.051	ND		0.0015	ND	ND	ND	0.93	ND	35	0.10	ND	ND	13	ND	ND	39	ND	ND	0.022
Stream-7 10-Sep-19	No flow	No flow	No flow	No flow		No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7 20-Mar-19	ND	0.002	0.053	ND		0.00074 J	ND	ND	ND	6.10	ND	32	0.25	ND	ND	12	ND	ND	29	ND	ND	0.018 J
Stream-7 7-Oct-18	ND	ND	0.086	ND		ND	ND	ND	0.99	ND	45	0.16	ND	ND	18	ND	ND	42	ND	ND	0.012	
Stream-7 19-Mar-18	ND	0.0021	0.100	ND		ND	ND	ND	4.50	ND	43	0.42	ND	ND	ND	ND	ND	43	ND	ND	0.019	
Stream-7 19-Sep-17	ND	ND	0.027	ND		ND	ND	ND	0.71	ND	20	0.05	ND	ND	9	ND	ND	33	ND	ND	0.015	
Stream-7 21-Mar-17	ND	ND	0.052	ND		0.00032	ND	ND	ND	1.60	ND	25	0.19	ND	ND	ND	ND	ND	38	ND	ND	0.014
Stream-7 21-Sep-16	No flow	No flow	No flow	No flow		No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7 16-Mar-16	ND	ND	0.060	ND		0.00031	ND	ND	ND	0.89	ND	34	0.12	ND	ND	14	ND	ND	40	ND	ND	0.012
Stream-7 23-Sep-15	No flow	No flow	No flow	No flow		No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7 24-Mar-15	ND	ND	0.049	ND		ND	ND	ND	1.30	ND	36	0.23	ND	ND	13	ND	ND	44	ND	ND	0.015	
Stream-7 22-Sep-14	No flow	No flow	No flow	No flow		No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7 25-Mar-14	ND	ND	0.042	ND		0.00038	ND	ND	ND	1.20	ND	32	0.28	ND	ND	12	ND	ND	52	ND	ND	ND
Stream-7 25-Sep-13	ND	ND	0.033	ND		ND	ND	ND	0.24	ND	23	ND	ND	ND	12	ND	ND	40	ND	ND	ND	ND
Stream-7 27-Mar-13	ND	ND	0.047	ND		0.00031	ND	ND	ND	1.80	ND	29	0.39	ND	ND	11	ND	ND	51	ND	ND	ND
Stream-7 19-Sep-12	ND	0.0026	0.044	ND		ND	ND	ND	ND	1.20	ND	26	0.22	ND	ND	14	ND	ND	57	ND	ND	0.015
Stream-7 27-Mar-12	ND	ND	0.056	ND		ND	ND	ND	ND	4.30	ND	35	0.95	ND	ND	ND	ND	ND	110	ND	ND	0.016
Stream-7 28-Sep-11	ND	0.0053	0.120	ND		ND	0.013	0.006	0.011	15.00	0.016	21	0.42	ND	0.0098	12	ND	ND	36	ND	0.02	0.024
Stream-7 28-Mar-11	ND	0.0020	0.085	ND		ND	0.002	0.005	0.001	2.00	ND	55	0.47	ND	0.0058	29	ND	ND	130	ND	ND	0.015
Stream-7 5-Oct-10	ND	0.0027	0.079	ND		ND	0.002	0.003	0.001	3.00	ND	34	0.41	ND	0.0042	21	ND	ND	80	ND	ND	0.014
Stream-7 25-Mar-10	ND	0.0029	0.130	ND		0.00070	0.004	0.010	0.001	2.90	ND	54	0.56	ND	0.0069	30	ND	ND	120	ND	ND	0.021
Stream-7 28-Sep-09	ND	ND	0.067	ND		ND	ND	ND	ND	2.40	ND	36	0.55	ND	ND	19	ND	ND	90	ND	ND	ND
Stream-7 26-Mar-09	ND	ND	0.053	ND		ND	ND	ND	ND	2.90	ND	53	0.65	ND	0.0059	23	ND	ND	130	ND	ND	ND
Stream-7 11-Aug-08	ND	ND	0.069	ND		ND	0.004	0.003	ND	1.85	ND	52	0.52	ND	0.0050	ND	ND	ND	ND	ND	ND	ND
Stream-7 16-Apr-08	ND	0.006	0.080	ND		0.00050	0.003	0.003	ND	10.60	ND	46	0.46	ND	0.0040	ND	ND	ND	ND	ND	ND	ND
Stream-7 11-Oct-07	No flow	No flow	No flow	No flow		No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7 10-Apr-07	ND	ND	0.072	ND		ND	ND	0.007	ND	2.60	ND	51	ND	0.0061	ND	ND	ND	ND	ND	ND	ND	0.021
Stream-7 25-Oct-06	ND	ND	0.079	ND		ND	ND	0.005	ND	1.90	ND	76	ND	0.0052	ND	ND	ND	ND	ND	ND	ND	0.014
Stream-7 27-Apr-06	ND	ND	0.068	ND		ND	ND	0.006	ND	5.30	ND	79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7 10-Nov-05	ND	ND	0.110	ND		ND	ND	ND	0.005	0.81	ND	0.06	ND	0.0057	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7 6-Apr-05	ND	ND	0.073	ND		ND	ND	0.006	ND	4.70	ND	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.018
Stream-7 13-Oct-04	ND	ND	ND*	ND		ND	ND	0.008	ND	5.90	ND	74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7 29-Apr-04	ND	ND	0.037	ND		ND	ND	0.007	ND	4.60	ND	1.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7 8-Oct-03	ND	ND	0.056	ND		ND	ND	0.010	ND	8.30	ND	1.20	ND	0.0077	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7 23-Apr-03	ND	ND	0.063	ND		ND	ND	0.010	ND	4.60	ND	1.10	ND	0.0077	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7 8-Oct-02	No flow	No flow	No flow	No flow		No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow

Table 4. Total Metals Analyses - Surface Water

Compound		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Toxic Substances Criteria For Ambient Surface Waters (mg/L)		--	0.150	--	--	0.00025	--	--	0.009	--	0.0025	--	--	0.00077	0.052	--	0.005	--	--	--	0.120	
Stream-8	16-Sep-20	ND	ND	0.056	ND	ND	ND	ND	4.3	ND	9	0.21	ND	ND	4.3	ND	ND	12	ND	ND	ND	
Stream-8	11-Mar-20	ND	ND	0.076	ND	0.00026 J	ND	ND	ND	1.3	ND	17	0.17	ND	ND	6.0	ND	ND	25	ND	ND	0.016J
Stream-8	10-Sep-19	ND	ND	0.071	ND	ND	ND	ND	0.3	ND	23	ND	ND	ND	9.9	ND	ND	63	ND	ND	0.011	
Stream-8	19-Mar-19	ND	ND	0.050	ND	0.00070 J	ND	ND	ND	1.1	ND	10	0.12	ND	ND	3.9	ND	ND	15	ND	ND	0.030
Stream-8	8-Oct-18	ND	ND	0.070	ND	ND	ND	ND	ND	2.8	ND	16	0.20	ND	ND	6.7	ND	ND	25	ND	ND	0.019
Stream-8	20-Mar-18	ND	ND	0.075	ND	0.00047	ND	ND	ND	3.1	ND	16	0.17	ND	ND	6.5	ND	ND	30	ND	ND	0.025
Stream-8	20-Sep-17	ND	ND	0.065	ND	ND	ND	ND	ND	1.4	ND	14	0.12	ND	ND	7.4	ND	ND	33	ND	ND	0.018
Stream-8	22-Mar-17	ND	ND	0.058	ND	0.00050	ND	ND	ND	0.42	ND	9	0.08	ND	ND	4.1	ND	ND	20	ND	ND	0.022
Stream-8	21-Sep-16	ND	ND	0.086	ND	ND	ND	ND	ND	0.47	ND	21	0.04	ND	ND	11.0	ND	ND	56	ND	ND	0.014
Stream-8	16-Mar-16	ND	ND	0.065	ND	0.00057	ND	ND	ND	0.56	ND	12	0.06	ND	ND	5.6	ND	ND	24	ND	ND	0.019
Stream-8	23-Sep-15	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	
Stream-8	24-Mar-15	ND	ND	0.057	ND	0.00076	ND	ND	ND	0.39	ND	11	0.092	ND	ND	4.2	ND	ND	20	ND	ND	0.025
Stream-8	22-Sep-14	ND	ND	0.073	ND	ND	ND	ND	ND	0.24	ND	19	ND	ND	ND	12.0	ND	ND	42	ND	ND	ND
Stream-8	25-Mar-14	ND	ND	0.074	ND	0.00110	ND	ND	ND	0.62	ND	17	0.180	ND	ND	6.0	ND	ND	28	ND	ND	0.021
Stream-8	25-Sep-13	ND	ND	0.079	ND	ND	ND	ND	ND	0.77	ND	22	0.025	ND	ND	10.0	ND	ND	65	ND	ND	0.025
Stream-8	27-Mar-13	ND	ND	0.061	ND	0.00089	ND	ND	ND	1.10	ND	10	0.130	ND	ND	3.7	ND	ND	24	ND	ND	0.016
Stream-8	19-Sep-12	ND	ND	0.089	ND	ND	ND	ND	ND	0.78	ND	23	0.110	ND	ND	10.0	ND	ND	53	ND	ND	0.024
Stream-8	27-Mar-12	ND	ND	0.061	ND	ND	ND	ND	ND	1.30	ND	12	0.110	ND	ND	4.8	ND	ND	25	ND	ND	0.021
Stream-8	28-Sep-11	ND	0.0013	0.066	ND	ND	0.002	0.003	0.003	1.60	0.001	8	0.099	ND	0.006	4.5	ND	ND	18	ND	ND	0.010
Stream-8	28-Mar-11	ND	0.0006	0.072	ND	0.00110	0.001	0.005	0.001	1.10	ND	16	0.26	ND	0.0071	4.9	ND	ND	37	ND	ND	0.028
Stream-8	5-Oct-10	ND	0.0013	0.094	ND	ND	0.003	0.002	0.003	3.00	0.002	15	0.05	ND	0.0038	9.1	ND	ND	40	ND	0.0044	0.017
Stream-8	25-Mar-10	ND	0.001	0.077	ND	0.00080	0.001	0.005	0.001	0.86	ND	18	0.17	ND	0.0065	8.2	ND	ND	39	ND	ND	0.003
Stream-8	28-Sep-09	ND	ND	0.089	ND	ND	ND	ND	ND	1.30	ND	24	0.05	ND	ND	12.0	ND	ND	61	ND	ND	0.024
Stream-8	25-Mar-09	ND	ND	0.081	ND	ND	ND	ND	ND	0.64	ND	22	0.21	ND	0.0055	9.2	ND	ND	60	ND	ND	0.011
Stream-8	11-Aug-08	ND	ND	0.100	ND	ND	0.001	0.002	ND	0.79	ND	0.13	ND	0.005	ND	ND	ND	ND	ND	ND	ND	
Stream-8	16-Apr-08	ND	ND	0.080	0.000	0.00090	ND	0.004	ND	1.00	ND	0.23	ND	0.006	ND	ND	ND	ND	ND	ND	ND	0.013
Stream-8	11-Oct-07	ND	ND	0.120	ND	ND	ND	ND	ND	1.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Stream-8	10-Apr-07	ND	ND	0.083	ND	ND	ND	ND	ND	0.63	ND	0.13	ND	0.0054	ND	ND	ND	ND	ND	ND	ND	0.023
Stream-8	25-Oct-06	ND	ND	0.089	ND	ND	ND	ND	ND	0.33	ND	0.07	ND	0.0052	ND	ND	ND	ND	ND	ND	ND	0.019
Stream-8	27-Apr-06	ND	ND	0.076	ND	ND	ND	ND	ND	0.65	ND	0.16	ND	0.0055	ND	ND	ND	ND	ND	ND	ND	0.022
Stream-8	10-Nov-05	ND	ND	0.074	ND	ND	0.013	0.007	3.40	ND	1.50	ND	0.0100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	6-Apr-05	ND	ND	0.073	ND	ND	ND	0.005	ND	1.20	ND	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.036
Stream-8	13-Oct-04	ND	ND	0.041	ND	ND	ND	ND	ND	0.56	ND	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	29-Apr-04	ND	ND	0.073	ND	ND	ND	ND	ND	0.90	ND	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017
Stream-8	8-Oct-03	ND	ND	0.091	ND	ND	ND	ND	ND	1.00	ND	0.12	ND	0.0065	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	23-Apr-03	ND	ND	0.089	ND	ND	0.010	ND	0.76	ND	0.23	ND	0.0076	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
MW- 1	15-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	11-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	11-Sep-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	19-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	7-Oct-18	8.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	19-Mar-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	18-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	21-Mar-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	20-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	15-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	22-Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	23-Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	24-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	24-Sep-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	26-Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	19-Sep-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	27-Mar-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	24-Mar-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	28-Sep-09	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND
MW- 1	26-Mar-09	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND
MW- 1	11-Aug-08	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND
MW- 1	16-Apr-08	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND
MW- 1	10-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	10-Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	27-Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	10-Nov-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	8-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 1	26-Mar-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
MW- 2	15-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	10-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	12-Sep-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	19-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	7-Oct-18	8.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	19-Mar-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	18-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	21-Mar-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	21-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	15-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	22-Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	23-Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	25-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	24-Sep-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	26-Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	19-Sep-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	27-Mar-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	24-Mar-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	28-Sep-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	26-Mar-09	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND
MW- 2	11-Aug-08	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND
MW- 2	16-Apr-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	10-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	10-Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	27-Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	10-Nov-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	8-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 2	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
MW- 3	15-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	10-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	16-Sep-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	19-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	7-Oct-18	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	19-Mar-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	19-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	21-Mar-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	20-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	16-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	23-Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	24-Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	25-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	24-Sep-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	26-Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	19-Sep-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	27-Mar-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	25-Mar-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	28-Sep-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	26-Mar-09	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND
MW- 3	11-Aug-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	16-Apr-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	10-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	10-Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	27-Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	10-Nov-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	8-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 3	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
MW- 4	24-Sep-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	27-Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	19-Sep-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	27-Mar-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	24-Mar-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	28-Sep-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	26-Mar-09	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND
MW- 4	11-Aug-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	16-Apr-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	10-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	10-Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	27-Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	10-Nov-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	8-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4	26-Mar-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4A	16-Sep-20	ND	ND	ND	0.61J	ND	ND	ND	ND	ND	ND
MW- 4A	10-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4A	11-Sep-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4A	20-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4A	7-Oct-18	8.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4A	19-Mar-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4A	19-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4A	21-Mar-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4A	20-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4A	16-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4A	23-Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4A	23-Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4A	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 4A	24-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
MW- 5	16-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	11-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	11-Sep-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	19-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	8-Oct-18	11	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	20-Mar-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	20-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	22-Mar-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	21-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	16-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	23-Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	24-Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	25-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	25-Sep-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	27-Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	19-Sep-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	27-Mar-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	25-Mar-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	28-Sep-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	25-Mar-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	11-Aug-08	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND
MW- 5	16-Apr-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	10-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	10-Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	27-Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	10-Nov-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	8-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 5	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
MW- 6	16-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	11-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	16-Sep-19	ND	ND	ND	0.60J	ND	ND	ND	ND	ND	ND
MW- 6	19-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	8-Oct-18	7.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	20-Mar-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	20-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	22-Mar-17	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	21-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	16-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	23-Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	24-Mar-15	5.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	25-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	25-Sep-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	27-Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	19-Sep-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	27-Mar-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	25-Mar-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	28-Sep-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	25-Mar-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	11-Aug-08	8.7	ND	ND	0.9	ND	ND	ND	ND	ND	ND
MW- 6	16-Apr-08	15.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	10-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	10-Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	27-Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	10-Nov-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	8-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 6	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
MW- 7	15-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	10-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	10-Sep-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	20-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	8-Oct-18	7.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	23-Mar-18	ND	1.4	2.0	ND	ND	ND	ND	ND	ND	ND
MW- 7	18-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	22-Mar-17	ND	ND	2.4	ND	ND	ND	ND	ND	ND	ND
MW- 7	20-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	15-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	22-Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	23-Mar-15	ND	ND	0.83J	ND	ND	ND	ND	ND	ND	ND
MW- 7	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	24-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	24-Sep-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	26-Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	19-Sep-12	ND	ND	0.76J	ND	ND	ND	ND	ND	ND	ND
MW- 7	27-Mar-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	24-Mar-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	28-Sep-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	26-Mar-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	11-Aug-08	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND
MW- 7	16-Apr-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	10-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	10-Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	27-Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	10-Nov-05	ND	ND	ND	3.0	ND	ND	ND	ND	ND	ND
MW- 7	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	8-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 7	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
MW- 8	15-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	10-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	10-Sep-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	20-Mar-19	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND
MW- 8	8-Oct-18	11	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	23-Mar-18	25	1.7	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	18-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	22-Mar-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	20-Sep-16	41	ND	ND	ND	ND	ND	ND	ND	2.9	ND
MW- 8	15-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	22-Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	23-Mar-15	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	22-Sep-14	7.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	24-Mar-14	34	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	24-Sep-13	9.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	26-Mar-13	23	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	19-Sep-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	27-Mar-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	24-Mar-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	28-Sep-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	26-Mar-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	11-Aug-08	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND
MW- 8	16-Apr-08	19	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	10-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	10-Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	27-Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	10-Nov-05	17*	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	3.0	ND
MW- 8	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	3.0	ND
MW- 8	8-Oct-03	41	ND	ND	ND	ND	ND	ND	ND	19	ND
MW- 8	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 8	26-Mar-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
MW- 9	15-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	10-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	10-Sep-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	20-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	8-Oct-18	8.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	17-Apr-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	23-Mar-18	9.4	21	ND	ND	ND	ND	ND	ND	1.3	ND
MW- 9	18-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	14	ND
MW- 9	22-Mar-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	20-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	15-Mar-16	6.5	ND	ND	ND	ND	ND	ND	ND	0.68J	ND
MW- 9	22-Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	23-Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82J
MW- 9	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	24-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	24-Sep-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	26-Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	19-Sep-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	27-Mar-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	24-Mar-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	28-Sep-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	26-Mar-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	11-Aug-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	16-Apr-08	ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND
MW- 9	10-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	10-Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	27-Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	10-Nov-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	8-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	23-Mar-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW- 9	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
MW-10R	15-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	10-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	16-Sep-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	20-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	8-Oct-18	11	ND	1.6	ND	ND	ND	ND	ND	ND	ND
MW-10R	23-Mar-18	ND	ND	0.72J	ND	ND	ND	ND	ND	ND	ND
MW-10R	18-Sep-17	ND	ND	0.54	ND	ND	ND	ND	ND	ND	ND
MW-10R	22-Mar-17	ND	ND	0.54	ND	ND	ND	ND	ND	ND	ND
MW-10R	20-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	15-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	22-Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	23-Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	24-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	24-Sep-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	26-Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	19-Sep-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	27-Mar-12	ND	ND	0.98	ND	ND	ND	ND	ND	ND	ND
MW-10R	28-Sep-11	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND
MW-10R	28-Mar-11	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND
MW-10R	5-Oct-10	ND	ND	2.0	ND	ND	ND	ND	ND	ND	ND
MW-10R	24-Mar-10	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND
MW-10R	28-Sep-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	26-Mar-09	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND
MW-10R	11-Aug-08	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND
MW-10R	16-Apr-08	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND
MW-10R	10-Oct-07	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND
MW-10R	10-Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	27-Apr-06	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND
MW-10R	10-Nov-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	13-Oct-04	ND	ND	2.0	ND	ND	ND	1.0	ND	ND	ND
MW-10R	29-Apr-04	ND	ND	1.0	ND	ND	ND	6.0	ND	ND	ND
MW-10R	8-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10R	23-Apr-03	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND
MW-10R	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
MW-11R	15-Sep-20	ND	ND	ND	ND	0.97J	ND	3.8	0.78J	ND	ND
MW-11R	10-Mar-20	ND	ND	ND	ND	0.68J	ND	2.7	0.56J	ND	ND
MW-11R	12-Sep-19	ND	ND	ND	ND	0.83J	ND	3.6	0.76J	ND	ND
MW-11R	19-Mar-19	ND	ND	ND	ND	ND	ND	4.5	0.89J	ND	ND
MW-11R	7-Oct-18	13	3.0	ND	ND	0.64J	ND	3.2	0.58J	ND	ND
MW-11R	20-Mar-18	ND	ND	ND	ND	0.62	ND	2.8	0.64	ND	ND
MW-11R	18-Sep-17	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND
MW-11R	21-Mar-17	ND	ND	ND	ND	0.50J	ND	2.6	ND	ND	ND
MW-11R	21-Sep-16	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND
MW-11R	15-Mar-16	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND
MW-11R	22-Sep-15	ND	ND	ND	ND	0.51J	ND	1.5	0.74J	ND	ND
MW-11R	23-Mar-15	ND	ND	ND	ND	0.63J	0.75J	2.4	0.81J	ND	0.63J
MW-11R	22-Sep-14	ND	ND	ND	ND	ND	ND	2.5	ND	ND	1.3
MW-11R	24-Mar-14	ND	ND	ND	ND	ND	ND	2.0	0.65J	ND	ND
MW-11R	24-Sep-13	ND	ND	ND	ND	0.6	ND	2.5	ND	ND	ND
MW-11R	26-Mar-13	ND	ND	ND	ND	0.7	ND	3.2	ND	ND	ND
MW-11R	19-Sep-12	ND	ND	ND	ND	1.0	ND	4.5	0.92J	ND	ND
MW-11R	27-Mar-12	ND	ND	ND	ND	0.7	ND	4.2	ND	ND	ND
MW-11R	28-Sep-11	ND	ND	ND	ND	0.6	ND	3.0	ND	ND	ND
MW-11R	28-Mar-11	ND	ND	ND	ND	0.8	ND	5.0	1.0	ND	1.0
MW-11R	5-Oct-10	ND	ND	ND	ND	0.7	ND	7.0	1.0	ND	ND
MW-11R	24-Mar-10	ND	ND	ND	ND	1.0	1.0	5.0	1.0	ND	2.0
MW-11R	28-Sep-09	ND	ND	ND	ND	ND	ND	5.0	ND	ND	ND
MW-11R	25-Mar-09	ND	ND	ND	ND	ND	ND	6.0	1.0	ND	ND
MW-11R	11-Aug-08	ND	ND	ND	0.7	1.7	ND		1.5	ND	0.4
MW-11R	16-Apr-08	ND	ND	ND	ND	1.9	ND	7.2	1.7	ND	ND
MW-11R	10-Oct-07	ND	ND	ND	ND	2.0	2.0	9.0	2.0	ND	3.0
MW-11R	10-Apr-07	ND	ND	ND	ND	2.0	2.0	9.0	ND	ND	6.0
MW-11R	25-Oct-06	ND	ND	ND	ND	2.0	ND	10	ND	ND	ND
MW-11R	27-Apr-06	ND	ND	ND	ND	2.0	ND	8.0	ND	ND	6.0
MW-11R	10-Nov-05	7*	ND	ND	ND	3.0	ND	11	ND	ND	9.0
MW-11R	6-Apr-05	ND	ND	ND	ND	3.0	ND	13	ND	ND	7.0
MW-11R	13-Oct-04	ND	ND	ND	ND	3.0	ND	12	ND	ND	6.0
MW-11R	29-Apr-04	ND	ND	ND	ND	3.0	ND	15	ND	ND	10

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
MW-12R	15-Sep-20	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND
MW-12R	10-Mar-20	ND	ND	ND	ND	ND	ND	0.69J	ND	ND	ND
MW-12R	12-Sep-19	27	ND	ND	ND	ND	ND	1.8	ND	ND	ND
MW-12R	20-Mar-19	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND
MW-12R	7-Oct-18	8.6	0.6J	ND	ND	ND	ND	1.5	ND	ND	ND
MW-12R	23-Mar-18	ND	1.4	ND	ND	ND	ND	1.0	ND	ND	ND
MW-12R	19-Sep-17	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND
MW-12R	21-Mar-17	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND
MW-12R	20-Sep-16	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND
MW-12R	15-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-12R	22-Sep-15	ND	ND	ND	ND	ND	ND	0.78J	ND	ND	ND
MW-12R	23-Mar-15	150	ND	ND	ND	ND	ND	0.69J	ND	ND	ND
MW-12R	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-12R	24-Mar-14	ND	ND	ND	ND	ND	ND	0.52J	ND	ND	ND
MW-12R	24-Sep-13	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND
MW-12R	26-Mar-13	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND
MW-12R	19-Sep-12	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND
MW-12R	27-Mar-12	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND
MW-12R	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-12R	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-12R	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-12R	24-Mar-10	ND	2.0	ND	ND	ND	ND	2.0	ND	ND	ND
MW-12R	28-Sep-09	ND	1.0	ND	ND	ND	ND	2.0	ND	ND	ND
MW-12R	25-Mar-09	ND	2.0	ND	ND	ND	ND	2.0	ND	ND	ND
MW-12R	11-Aug-08	16.8	1.5	ND	0.4	ND	ND	ND	ND	ND	ND
MW-12R	16-Apr-08	ND	0.9	ND	ND	ND	ND	1.7	ND	ND	ND
MW-12R	10-Oct-07	ND	ND	ND	ND	ND	ND	2.0	ND	ND	ND
MW-12R	10-Apr-07	ND	2.0	ND	ND	ND	ND	2.0	ND	ND	ND
MW-12R	25-Oct-06	ND	1.0	ND	ND	ND	ND	2.0	ND	ND	ND
MW-12R	27-Apr-06	ND	ND	ND	ND	ND	ND	2.0	ND	ND	ND
MW-12R	10-Nov-05	14*	ND	ND	ND	ND	ND	1.0	ND	ND	ND
MW-12R	6-Apr-05	ND	ND	ND	ND	ND	ND	1.0	ND	ND	ND
MW-12R	13-Oct-04	ND	ND	ND	ND	ND	ND	2.0	ND	ND	ND
MW-12R	29-Apr-04	ND	1.0	ND	ND	ND	ND	2.0	ND	ND	ND
MW-12R	8-Oct-03	ND	2.0	ND	ND	ND	ND	2.0	ND	ND	ND
MW-12R	23-Apr-03	8*	3.0	ND	ND	ND	ND	ND	ND	ND	ND
MW-12R	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	16-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	11-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	11-Sep-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	19-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	8-Oct-18	8.9	3.7	ND	ND	ND	ND	ND	ND	1.5	ND
MW-13	19-Mar-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	19-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	21-Mar-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	20-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	16-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	23-Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	24-Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	24-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
Stream-3	16-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	11-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	10-Sep-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	19-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	8-Oct-18	12	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	19-Mar-18	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	19-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	21-Mar-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	21-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	16-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	23-Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	24-Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	25-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	25-Sep-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	27-Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	19-Sep-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	27-Mar-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	25-Mar-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	28-Sep-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	25-Mar-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	11-Aug-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	16-Apr-08	ND	ND	ND	ND	ND	Nd	ND	ND	ND	ND
Stream-3	11-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	10-Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	27-Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	10-Nov-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	8-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-3	26-Mar-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
Stream-4	16-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	11-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	10-Sep-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	19-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	8-Oct-18	8.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	19-Mar-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	19-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	21-Mar-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	21-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	16-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	23-Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	24-Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	25-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	25-Sep-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	27-Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	19-Sep-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	27-Mar-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	25-Mar-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	28-Sep-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	25-Mar-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	11-Aug-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	16-Apr-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	10-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	10-Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	27-Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	10-Nov-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	8-Oct-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-4	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
Stream-7	16-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	10-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	10-Sep-19	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7	20-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	7-Oct-18	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	19-Mar-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	19-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	21-Mar-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	21-Sep-16	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7	16-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	23-Sep-15	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7	24-Mar-15	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	22-Sep-14	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7	25-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	25-Sep-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	27-Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	19-Sep-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	27-Mar-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	25-Mar-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	28-Sep-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	25-Mar-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	11-Aug-08	9.7	ND	ND	ND	ND	ND	0.3	ND	ND	ND
Stream-7	16-Apr-08	10.6	ND	ND	ND	ND	ND	0.2	ND	ND	ND
Stream-7	11-Oct-07	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-7	10-Apr-07	8*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	27-Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	10-Nov-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	8-Oct-03	9*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-7	8-Oct-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5. Volatile Organic Compound Analyses (ug/l)

Location	Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Methyl-t-butyl-ether	Methylene Chloride	Toluene	Vinyl Chloride
MCL		550	5.0	80	19	90	7.0	20	5.0	1000	2.0
Stream-8	16-Sep-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	11-Mar-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	10-Sep-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	19-Mar-19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	8-Oct-18	11	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	20-Mar-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	20-Sep-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	22-Mar-17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	21-Sep-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	16-Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	23-Sep-15	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow	No flow
Stream-8	24-Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	22-Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	25-Mar-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	25-Sep-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	27-Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	19-Sep-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	27-Mar-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	28-Sep-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	28-Mar-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	5-Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	25-Mar-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	28-Sep-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	25-Mar-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	11-Aug-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	16-Apr-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	10-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	10-Apr-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	25-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	27-Apr-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	10-Nov-05	7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	6-Apr-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	13-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	29-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	8-Oct-03	6*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Stream-8	23-Apr-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 6. Upgradient vs Downgradient Statistical Comparison



compound	criteria	LOD	downgradient					upgradient					upgradient vs downgradient difference								
			mean	median	minimum	maximum	75th percentile	Percent of exceedances	mean	median	minimum	maximum	75th percentile	Percent of exceedances	mean	median	minimum	maximum	75th percentile	Percent of exceedances	
pH (Field)			6.19	6.35	3.87	8.33	6.72		5.20	5.34	3.76	6.41	5.85		19%	19%	2.9%	30%	15%		
Spec Cond (Field)		410	314	38	1510	540			209	206	64	496	257		96%	52%	-41%	204%	110%		
Turbidity		0.2	76	6.4	0.25	440	91		100	10	0.3	350	200		-24%	-34%	-17%	26%	-54%		
Alkalinity		1.0	140	140	0.50	380	210		47	54	0.5	97	87		195%	162%	0.0%	292%	141%		
Ammonia		0.10	0.56	0.05	0.05	6.7	0.21		0.1	0.1	0.05	0.6	0.1		291%	0%	0.0%	947%	46%		
COD		5.0	15	6.0	2.50	80	19		15	9	2.50	85	16		-4.5%	-29%	0.0%	-6%	24%		
Hardness			210	150	9.8	1100	270		34	25	12	79	49		518%	500%	-18%	1292%	448%		
Nitrate	10	0.1	0.16	0.05	0.02	1.50	0.16	0.0%	0.39	0.05	0.02	2.7	0.7	0.0%	-59%	0%	10.0%	-44%	-76%	0.0%	
Sulfate	250	5.0	75	21	2.5	600	54	10.0%	15	14	6.2	25	18	72%	410%	50%	-59.7%	2300%	206%	-62%	
total chloride		250	5.0	20	5.3	1.7	93	23	0.0%	30	9	2.0	130	41	35%	-34%	-38%	-15.0%	-28%	-43%	-35%
TDS		250	10	317	240	34	1400	370	45.0%	124	109	25	250	168	100.0%	156%	121%	36%	460%	121%	-55%
Antimony		0.006	0.0020	0.001	0.001	0.001	0.003	0.001	0.0%	0.001	0.001	0.001	0.001	0.001	0.0%	2.7%	0.0%	0.0%	160.0%	0.0%	0.0%
Arsenic		0.010	0.0020	0.004	0.001	0.001	0.032	0.006	11.7%	0.003	0.002	0.001	0.008	0.006	0.0%	33%	-38%	0.0%	300%	5%	12%
Barium		2.0	0.010	0.07	0.05	0.01	0.20	0.07	0.0%	0.06	0.05	0.01	0.23	0.09	0.0%	2%	15%	8%	-13%	-24%	0.0%
Beryllium		0.004	0.0020	0.00	0.00	0.01	0.00	0.00	1.7%	0.00	0.00	0.00	0.00	0.00	0.0%	9%	0.0%	0.0%	400%	0.0%	2%
Cadmium		0.005	0.0040	0.00	0.00	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.00	0.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Chromium		0.100	0.010	0.01	0.01	0.01	0.01	0.01	0.0%	0.01	0.01	0.01	0.01	0.01	0.0%	-5%	0.0%	0.0%	-50%	0.0%	0.0%
Cobalt		--	0.010	0.01	0.01	0.02	0.01			0.01	0.01	0.01	0.01	0.01		19%	0.0%	0.0%	220%	0.0%	
Copper		1.300	0.010	0.01	0.01	0.14	0.01	0.0%	0.01	0.01	0.01	0.04	0.01	0.0%	87.9%	0.0%	0.0%	259%	105%	0.0%	
Iron		0.3	0.1	14	1.0	0.05	89	21	76.7%	22	16	0.05	64	45	56%	-38%	94%	0%	39%	-54%	21%
Lead		0.015	0.0020	0.00	0.00	0.00	0.01	0.00	0.0%	0.00	0.00	0.00	0.01	0.00	0.0%	-6%	0.0%	0.0%	-25%	0%	0.0%
Magnesium		--	0.10	7.9	3.2	0.40	38	9		3.6	3.4	1.2	6.9	4.7		119%	-6%	-67%	451%	100%	
Manganese		0.05	0.010	0.27	0.08	0.01	1.5	0.34	65.0%	0.49	0.26	0.04	4.7	0.31	0.0%	-45%	-68%	-86%	-68%	11%	65%
Mercury		0.0020	0.00020	0.0001	0.0001	0.0001	0.0001	0.0001	0.0%	0.0001	0.0001	0.0001	0.0001	0.0001	0.0%	0%	0%	0.0%	0%	0.0%	0.0%
Nickel		--	0.011	0.01	0.01	0.01	0.08	0.01		0.01	0.01	0.01	0.02	0.01		70%	9.1%	0.0%	420%	9.1%	
Potassium		--	0.39	3.1	2.5	0.53	13	3.2		0.9	1.0	0.20	2.2	1.2		252%	145%	171.8%	491%	167%	
Selenium		0.050	0.035	0.02	0.02	0.02	0.02	0.02	0.0%	0.02	0.02	0.02	0.02	0.02	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Silver		0.100	0.010	0.01	0.01	0.01	0.01	0.01	0.0%	0.01	0.01	0.01	0.01	0.01	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sodium		--	0.20	17.6	5.1	0.10	110	16.0		16	6.2	1.80	80	20		8%	-17.1%	-94.4%	38%	-19%	
Thallium		0.002	0.0020	0.00	0.00	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.00	0.00	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vadium		--	0.010	0.01	0.01	0.01	0.01	0.01		0.01	0.01	0.01	0.01	0.01		-9%	0.0%	0.0%	-64%	0.0%	
Zinc		5.0	0.020	0.03	0.02	0.01	0.16	0.04	0.0%	0.03	0.03	0.01	0.11	0.03	0.0%	-4%	-6%	-50%	45%	13%	0.0%

Notes:

Upgradient Monitoring Wells: 8, 9, 10R

Data analyzed includes past 3 years

Downgradient Monitoring Wells: 1, 2, 3, 4A, 5, 6, 7, 11R, 12R, 13

ND has an assumed value of 1/2 the limit of detection

Upgradient vs. Downgradient difference is upgradient - downgradient.

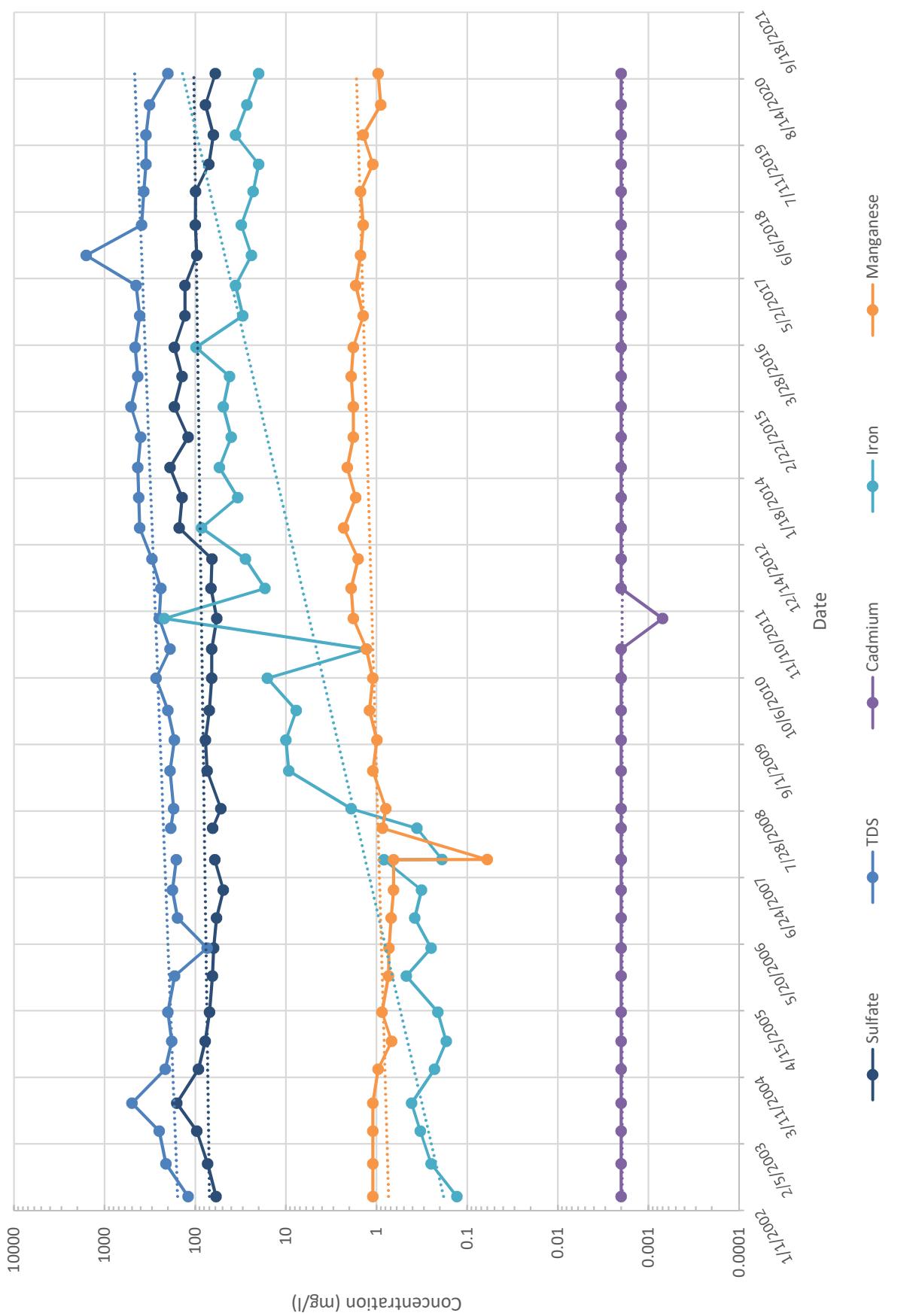
Red highlighted cells = positive difference >50% (downgradient is >50% greater than upgradient)

Green highlighted cells = negative difference >50% (upgradient is >50% greater than downgradient)

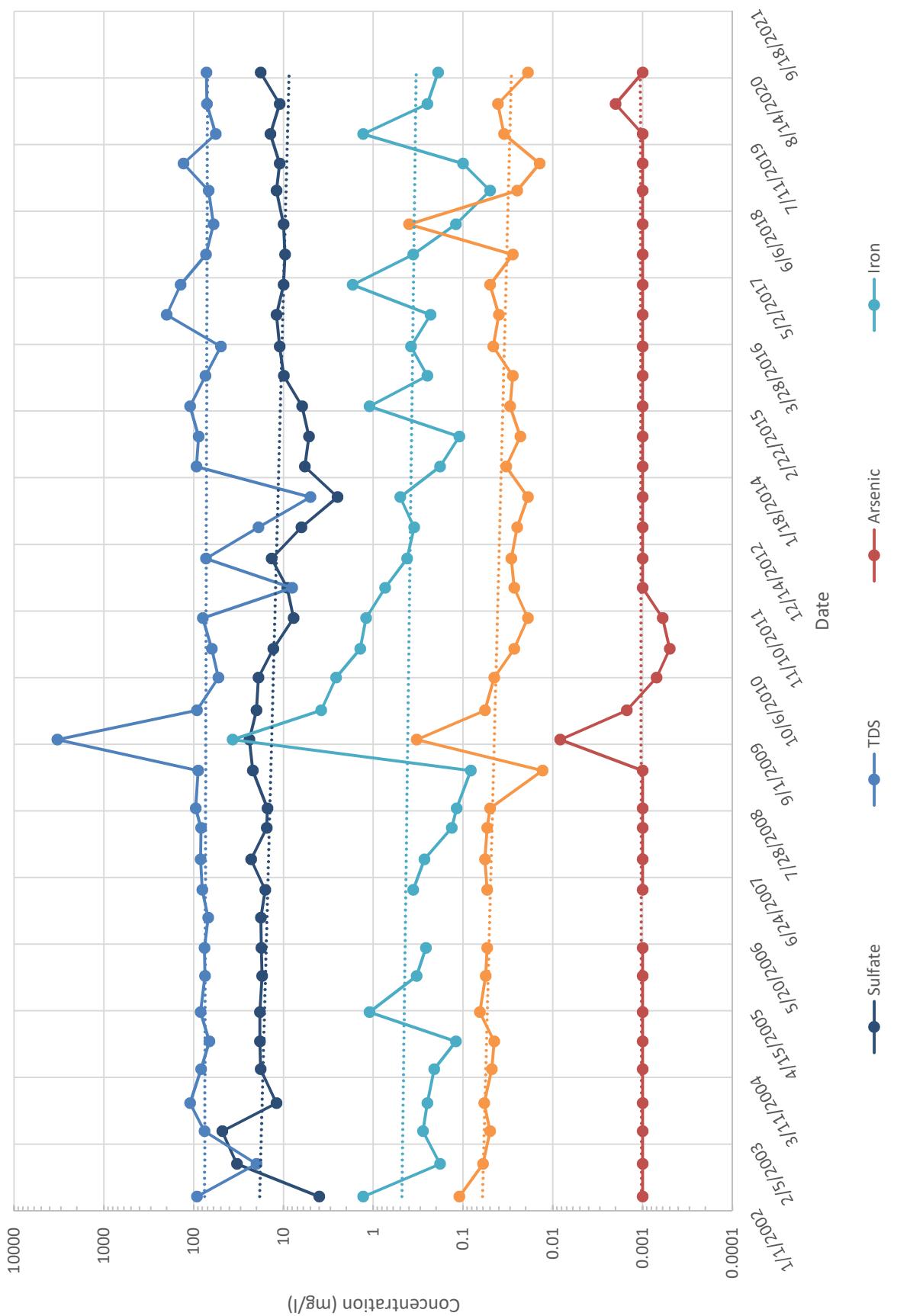
TAB 3

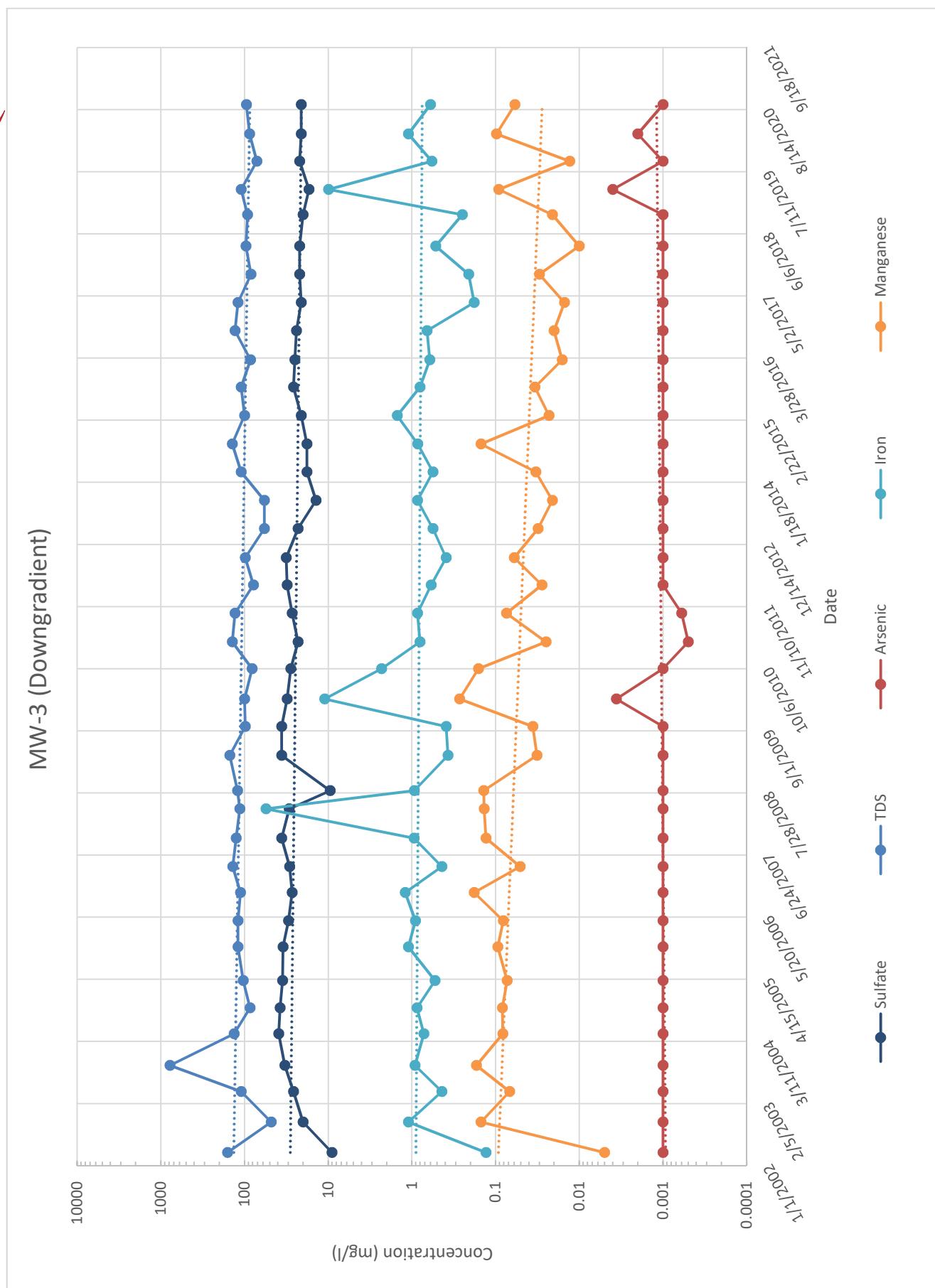
Graphs

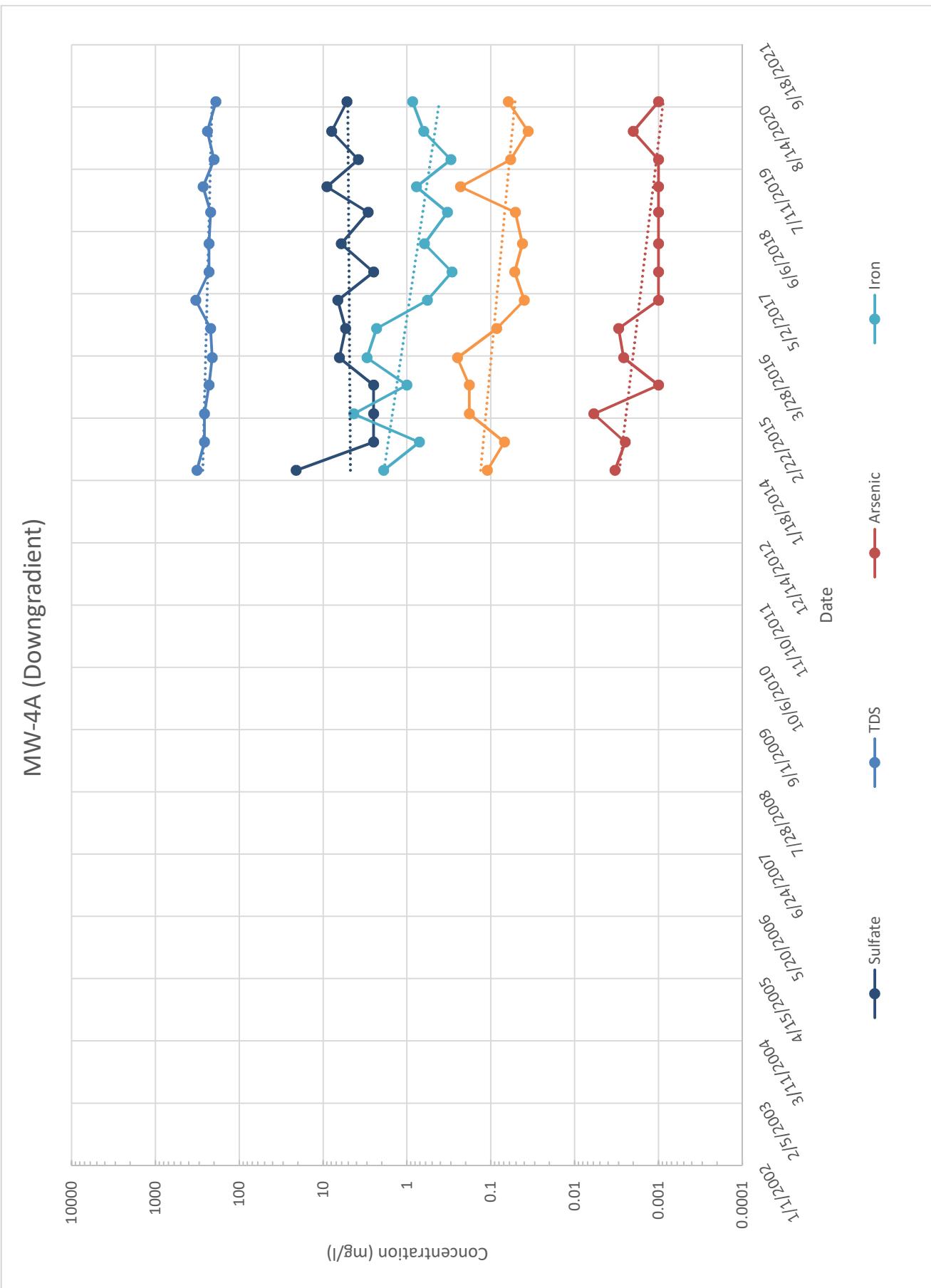
MW-1 (Downgradient)

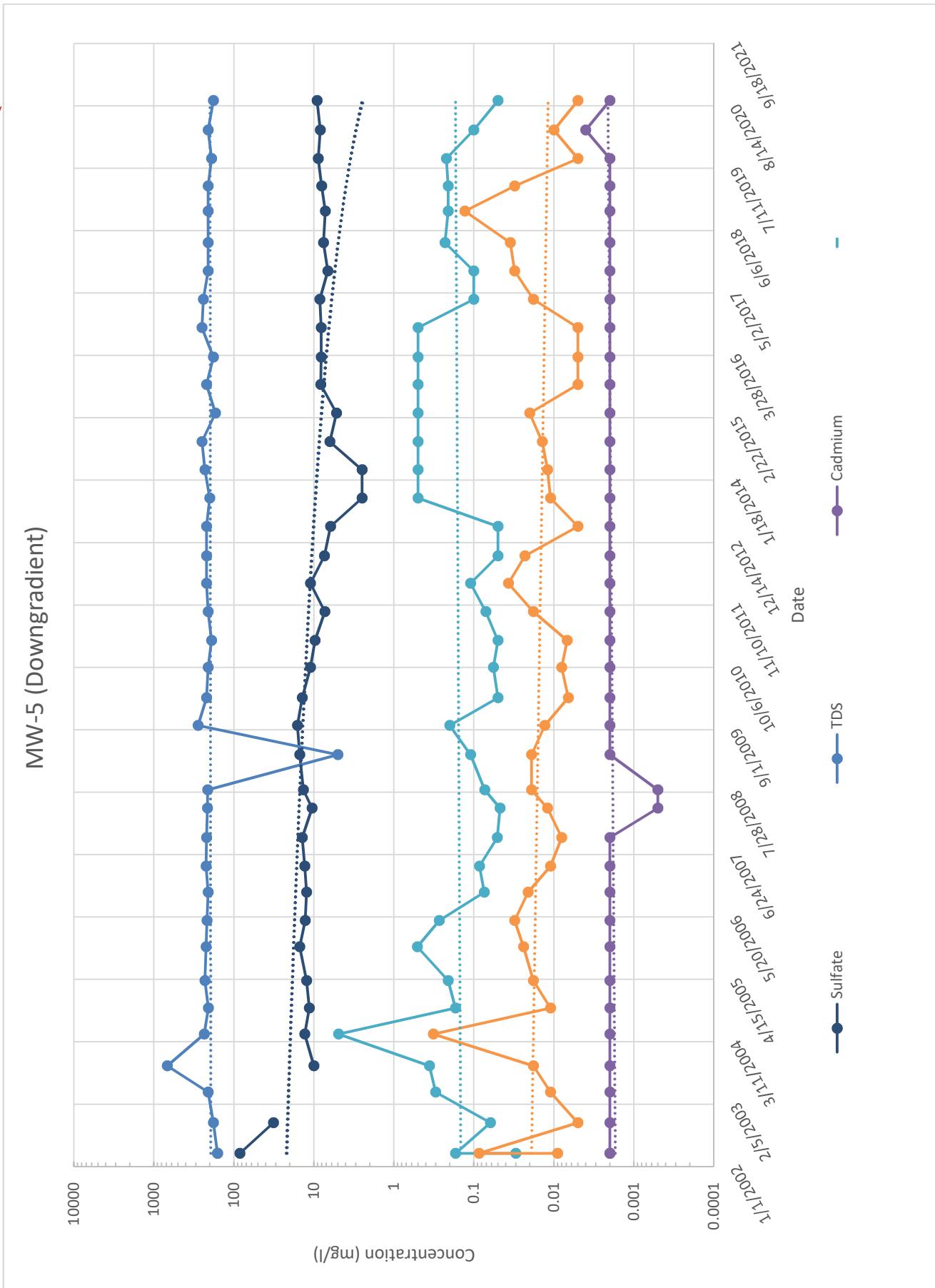


MW-2 (Downgradient)

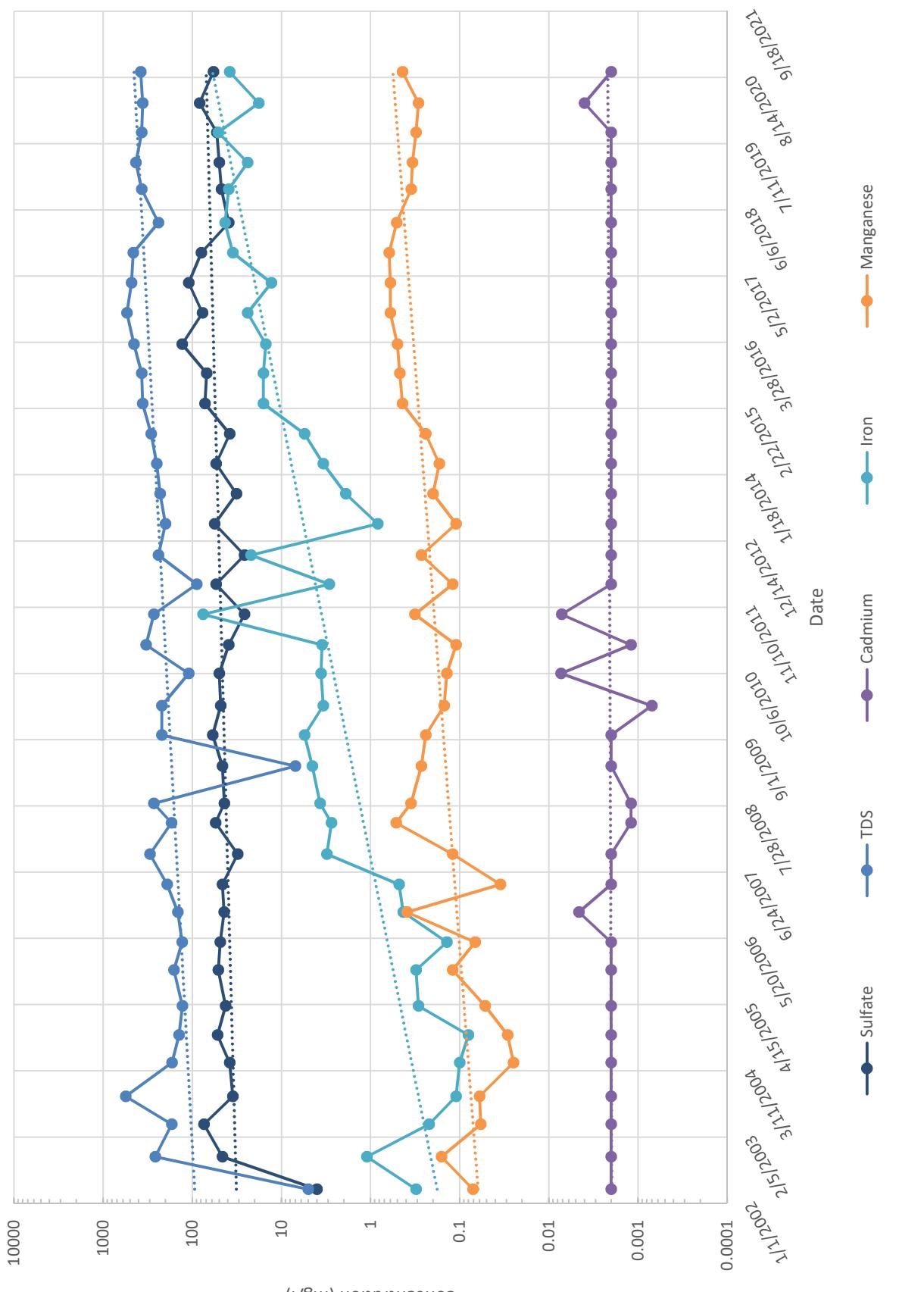




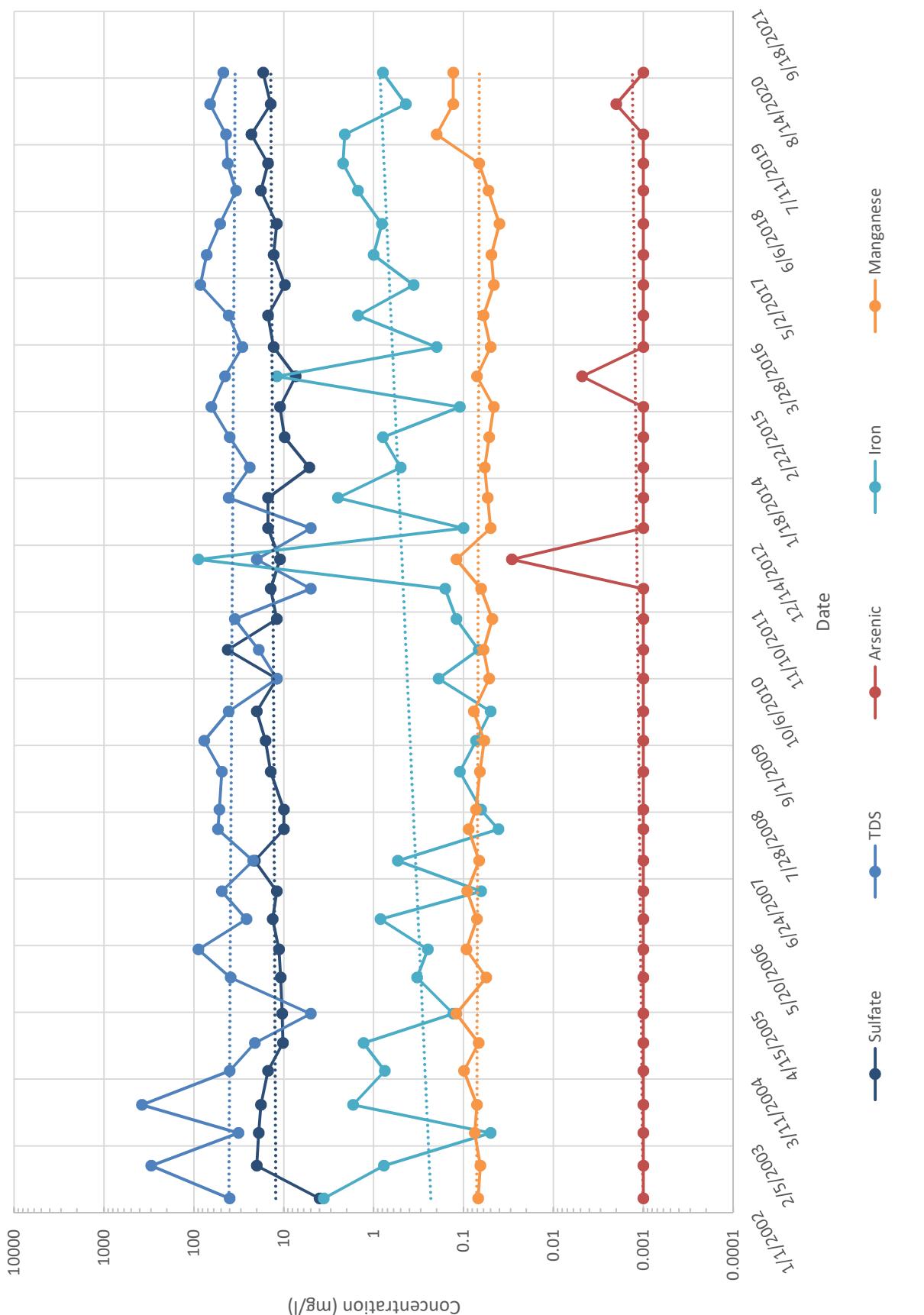




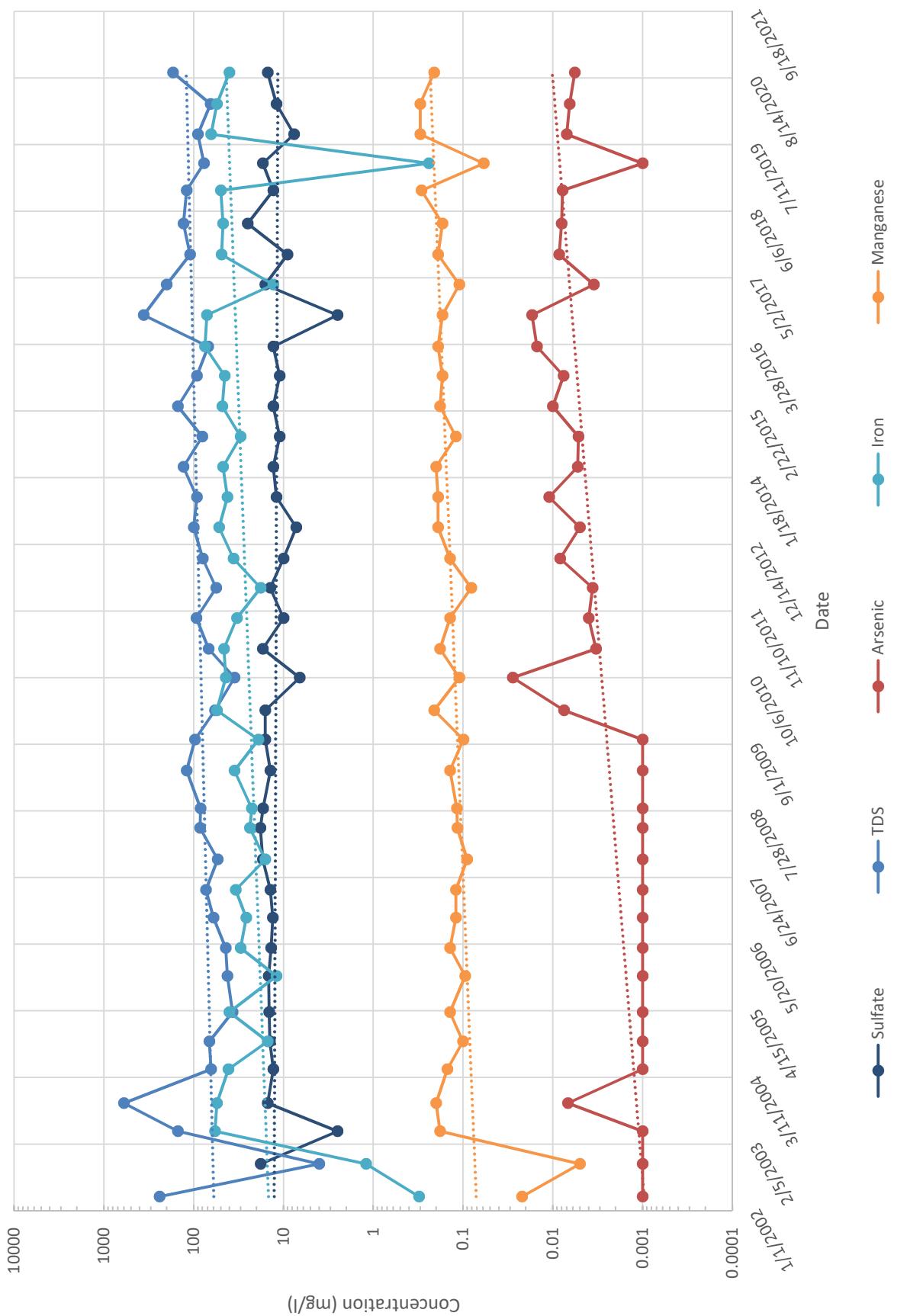
MW-6 (Downgradient)

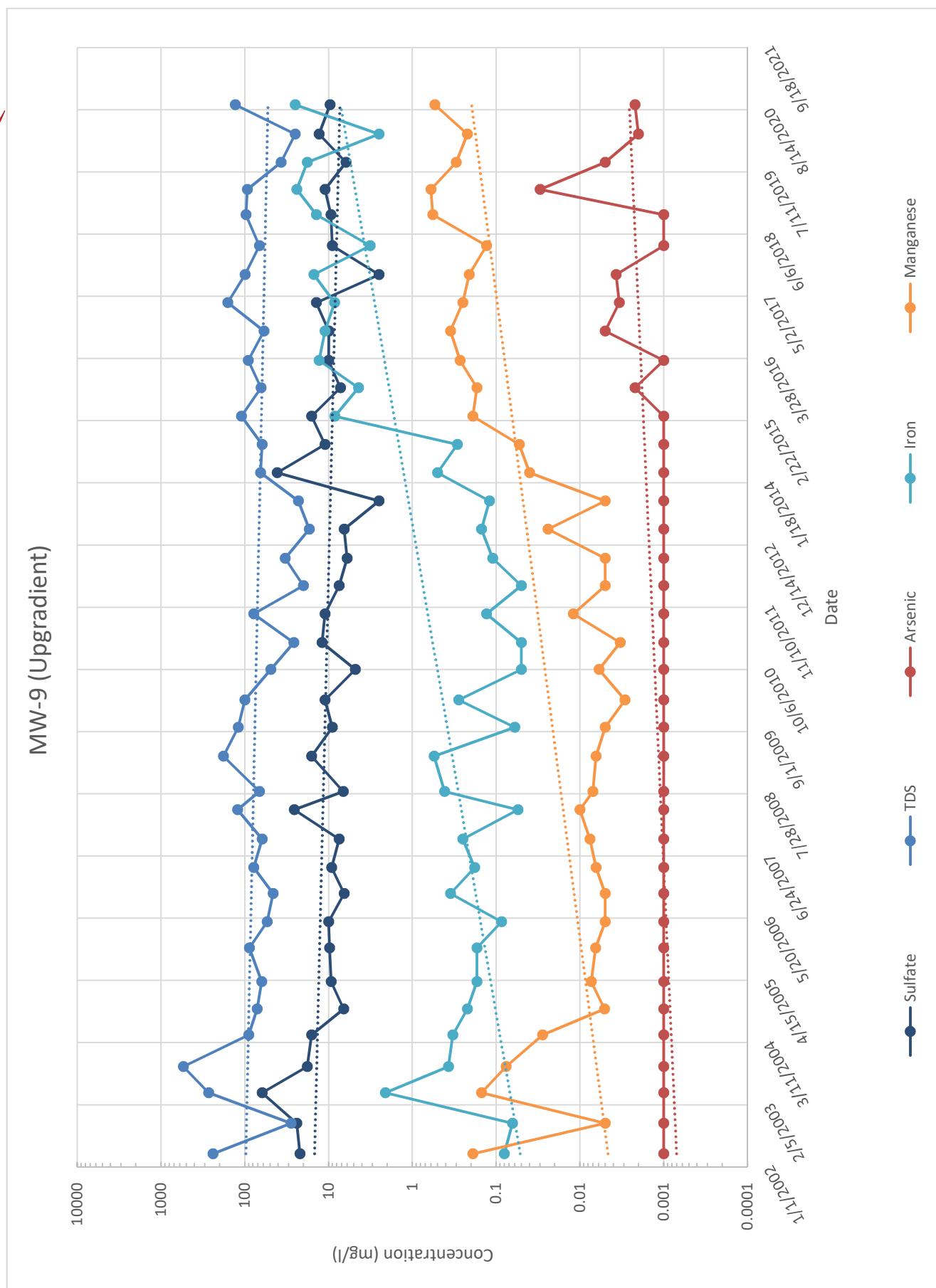


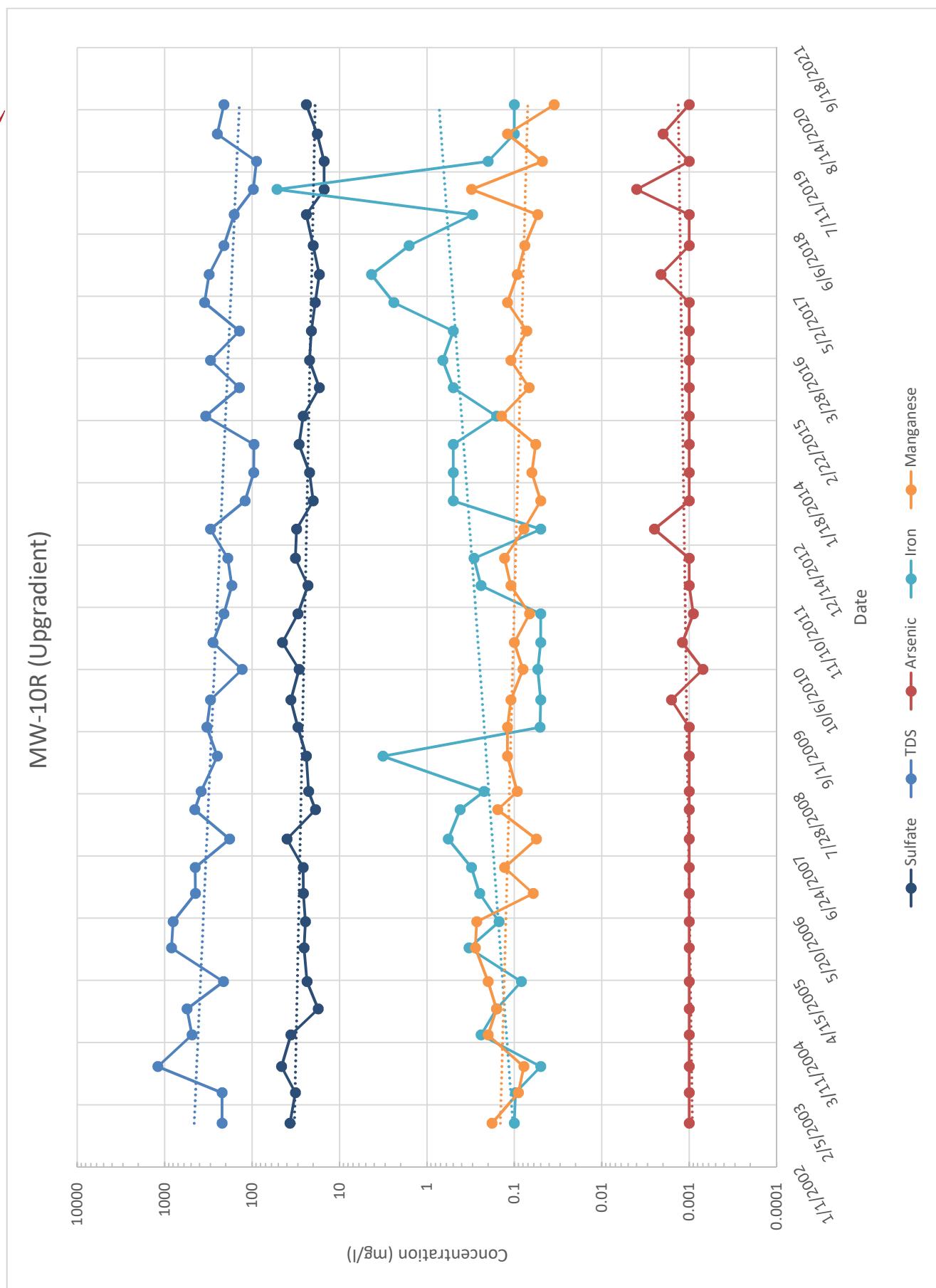
MW-7 (Downgradient)



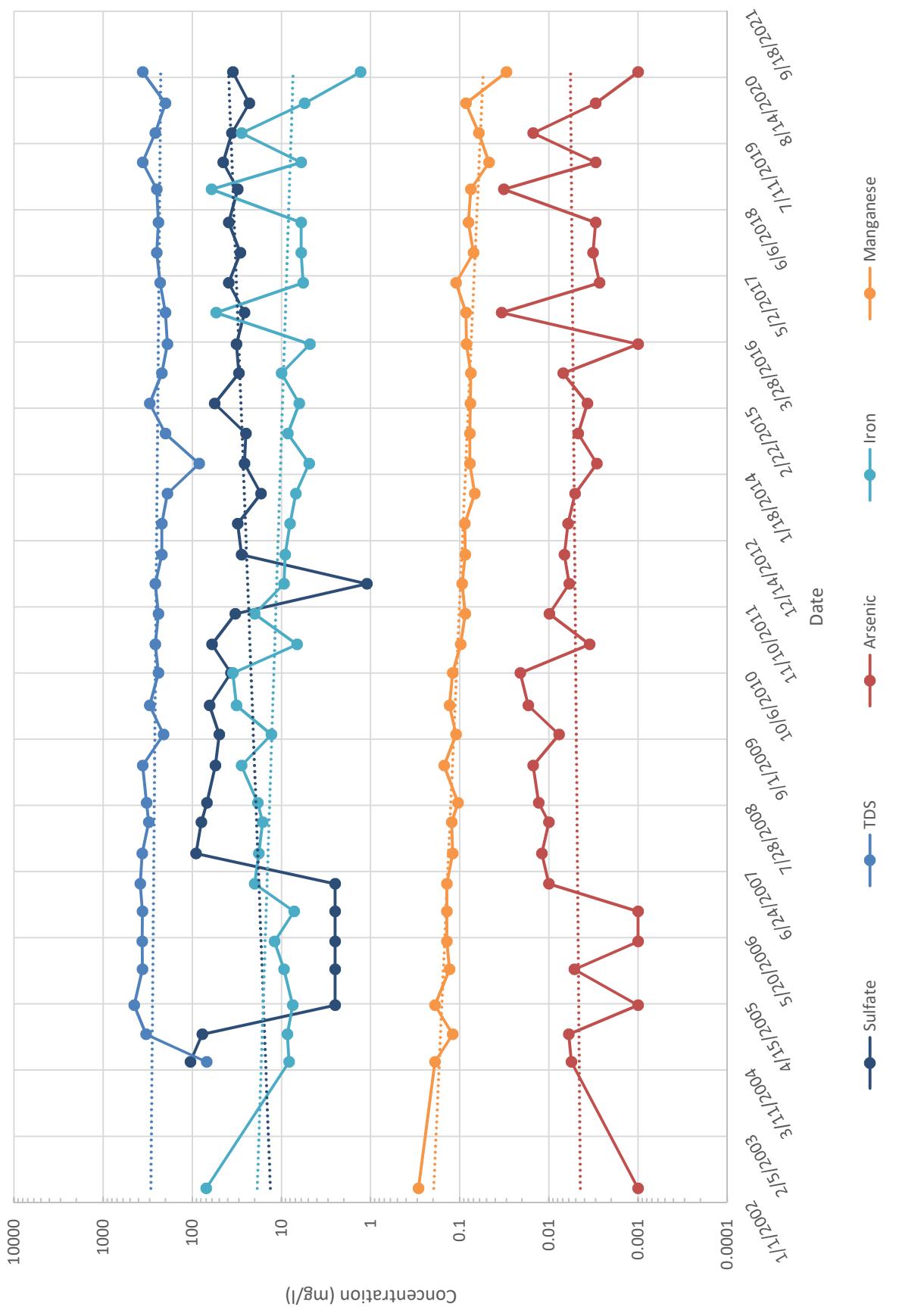
MW-8 (Upgradient)

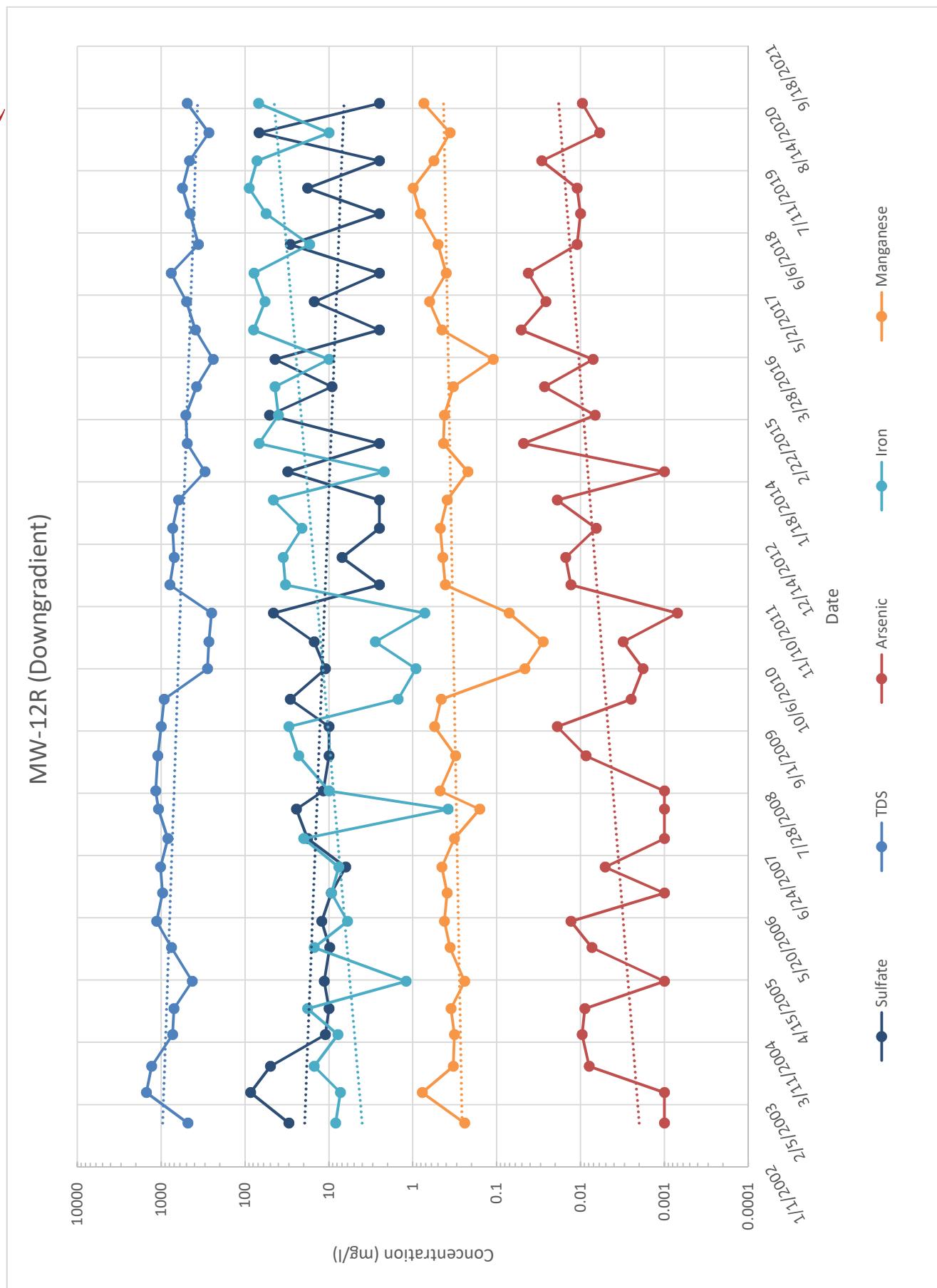


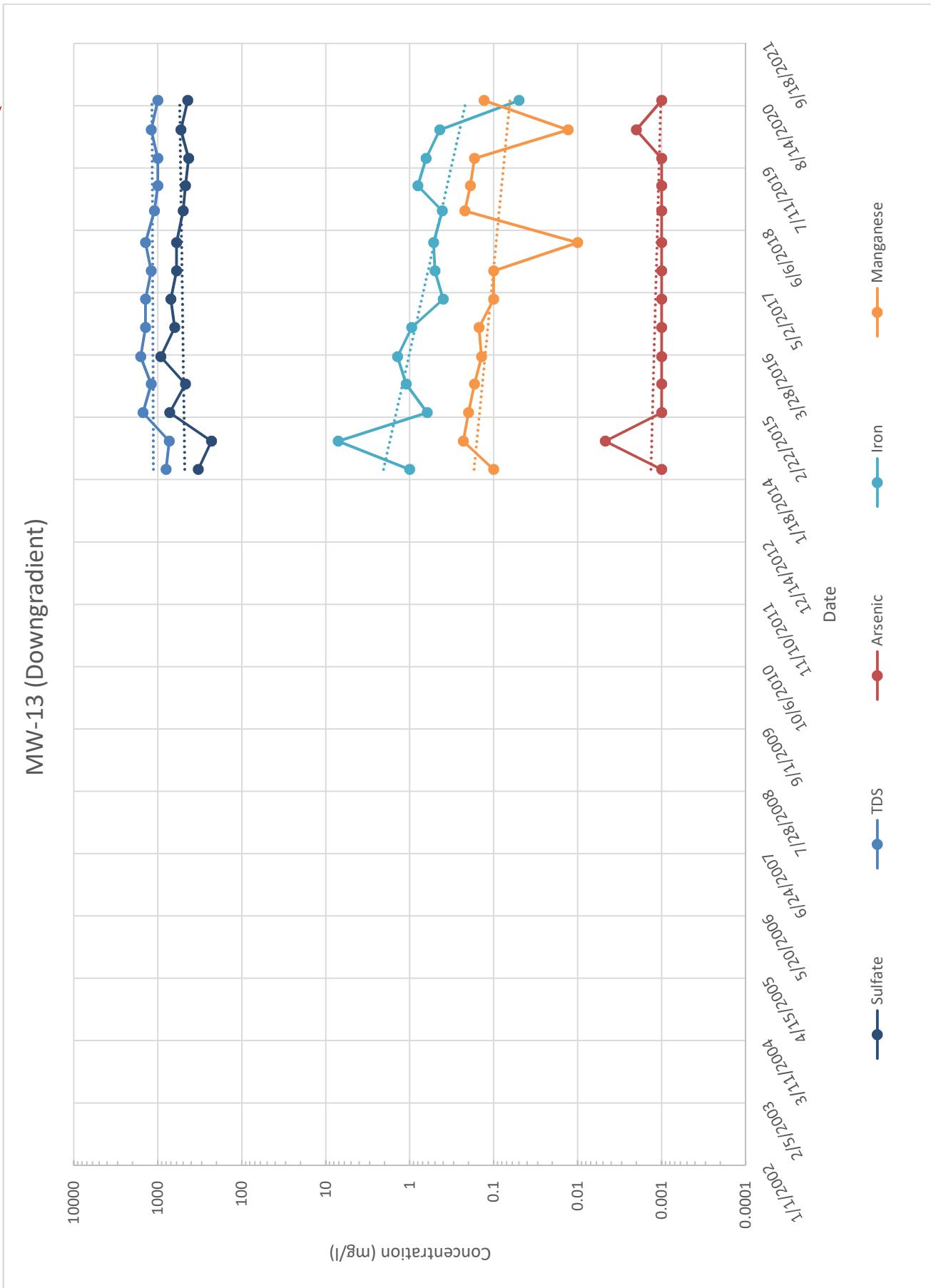




MW-11R (Downgradient)







TAB 4

Field Notes



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/15/20	
Well ID: MW-1		Sampler: G-B	
Depth to Water (feet): 18.45	Screen Interval (feet):	Depth to Product (feet):	Pump Depth (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet):	0.00
Begin Purge:		End Purge:	
Total Volume Removed (gallons):		(B) Well Diameter (inches):	
(C) Well Volume: {[[(B)/12]^2] x 3.14159/4} x (A) x 7.48 Gal/Cubic Feet =		0.00	
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):			
Three Well Volumes: (C) x 3 = 0.00			

Water Quality Measurements

Time Sampled: 9:19

Sample ID: MW-1

Sampler Signature: Glen Bonke



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/15/20	
Well ID: MW-2		Sampler: CB	
Depth to Water (feet): 18.32	Screen Interval (feet):	Depth to Product (feet):	Pump Depth (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet): 0.00	
Begin Purge:		End Purge:	
Total Volume Removed (gallons):		(B) Well Diameter (inches):	
(C) Well Volume: $\{[(B)/12]^2\} \times 3.14159/4 \times (A) \times 7.48$ Gal/Cubic Feet =		0.00	
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):			
Three Well Volumes: (C) x 3 =		0.00	

Water Quality Measurements

Time Sampled: 1220

Sample ID: MW-2

Sampler Signature: 



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/15/20
Well ID: MW-3		Sampler:
Depth to Water (feet): 13.81	Screen Interval (feet):	Depth to Product (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet): 0.00
Begin Purge:		End Purge:
Total Volume Removed (gallons):		(B) Well Diameter (inches):
(C) Well Volume: {[(B)/12]^2} x 3.14159/4 x (A) x 7.48 Gal/Cubic Feet = 0.00		
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):		
Three Well Volumes: (C) x 3 = 0.00		

Water Quality Measurements

Time Sampled:

1418

Sample ID: MW-3

Sampler Signature:

Glen Bone



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/16/20
Well ID: MW-4A		Sampler: GO
Depth to Water (feet): 11.84	Screen Interval (feet):	Depth to Product (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet): 0.00
Begin Purge:		End Purge:
Total Volume Removed (gallons):		(B) Well Diameter (inches):
(C) Well Volume: $\{[(B)/12]^2 \times 3.14159/4\} \times (A) \times 7.48$ Gal/Cubic Feet = 0.00		
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):		
Three Well Volumes: (C) x 3 = 0.00		

Water Quality Measurements

Time Sampled: 1146

Sample ID: MW-4A

Sampler Signature: Glen Barr



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/16/20	
Well ID: MW-5		Sampler: GB	
Depth to Water (feet): 4.55	Screen Interval (feet):	Depth to Product (feet):	Pump Depth (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet):	0.00
Begin Purge:		End Purge:	
Total Volume Removed (gallons):		(B) Well Diameter (inches):	
(C) Well Volume: {[(B)/12]^2} x 3.14159/4} x (A) x 7.48 Gal/Cubic Feet = 0.00			
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):			
Three Well Volumes: (C) x 3 = 0.00			

Water Quality Measurements

Time Sampled: 1630

Sample ID: MW-5

Sampler Signature: Glen Barr



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/16/20	
Well ID: MW-6		Sampler: AB	
Depth to Water (feet): 12.72	Screen Interval (feet):	Depth to Product (feet):	Pump Depth (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet):	0.00
Begin Purge:		End Purge:	
Total Volume Removed (gallons):		(B) Well Diameter (inches):	
(C) Well Volume: $\{(B)/12\}^2 \times 3.14159/4 \times (A) \times 7.48$ Gal/Cubic Feet =		0.00	
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):			
Three Well Volumes: (C) x 3 =		0.00	

Water Quality Measurements

Time Sampled: 1455

Sample ID: MW-6

Sampler Signature:

Glen Bow



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/15/20
Well ID: MW-7		Sampler: GB
Depth to Water (feet): 6.18	Screen Interval (feet):	Depth to Product (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet): 0.00
Begin Purge:		End Purge:
Total Volume Removed (gallons):		(B) Well Diameter (inches):
(C) Well Volume: $\{[(B)/12]^2 \times 3.14159/4\} \times (A) \times 7.48$ Gal/Cubic Feet = 0.00		
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):		
Three Well Volumes: (C) x 3 = 0.00		

Water Quality Measurements

Time Sampled:

1755

Sample ID:

MW-7

Sampler Signature:

re: Glen Barr



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/15/20	
Well ID: MW-8		Sampler: GB	
Depth to Water (feet): 10.13	Screen Interval (feet):	Depth to Product (feet):	Pump Depth (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet): 0.00	
Begin Purge:		End Purge:	
Total Volume Removed (gallons):		(B) Well Diameter (inches):	
(C) Well Volume: {[[(B)/12]^2] x 3.14159/4} x (A) x 7.48 Gal/Cubic Feet =		0.00	
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):			
Three Well Volumes: (C) x 3 =		0.00	

Water Quality Measurements

Time Sampled: 164

Sample ID: MW - 8

Sampler Signature: Glen Banks



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill	Date: 9/15/20		
Well ID: MW - 9	Sampler:		
Depth to Water (feet): 12.50	Screen Interval (feet):	Depth to Product (feet):	Pump Depth (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet):	0.00
Begin Purge:	End Purge:		
Total Volume Removed (gallons):	(B) Well Diameter (inches):		
(C) Well Volume: $\{(B)/12\}^2 \times 3.14159/4 \times (A) \times 7.48$ Gal/Cubic Feet =	0.00		
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):			
Three Well Volumes: (C) x 3 =	0.00		

Water Quality Measurements

Time Sampled: 1859

Sample ID: MW-9

Sampler Signature: Glen Barr



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/15/20
Well ID: MW-10R		Sampler:
Depth to Water (feet): 13.20	Screen Interval (feet):	Depth to Product (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet): 0.00
Begin Purge:		End Purge:
Total Volume Removed (gallons):		(B) Well Diameter (inches):
(C) Well Volume: $\{[(B)/12]^2 \times 3.14159/4\} \times (A) \times 7.48$ Gal/Cubic Feet = 0.00		
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):		
Three Well Volumes: (C) x 3 = 0.00		

Water Quality Measurements

Time Sampled: 1951

Sample ID: MW-10B

Sampler Signature: Glen Barr



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/15/20	
Well ID: MW-11R		Sampler: GB	
Depth to Water (feet): 14.32	Screen Interval (feet):	Depth to Product (feet):	Pump Depth (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet): 0.00	
Begin Purge:		End Purge:	
Total Volume Removed (gallons):		(B) Well Diameter (inches):	
(C) Well Volume: {[(B)/12]^2} x 3.14159/4 x (A) x 7.48 Gal/Cubic Feet =		0.00	
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):			
Three Well Volumes: (C) x 3 =		0.00	

Water Quality Measurements

Time Sampled: 1949

Sample ID: MW-11R

Sampler Signature:

e: Glen Baum



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/15/20
Well ID: MW-12R		Sampler: GB
Depth to Water (feet): 14.97	Screen Interval (feet):	Depth to Product (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet): 0.00
Begin Purge:		End Purge:
Total Volume Removed (gallons):		(B) Well Diameter (inches):
(C) Well Volume: $\{(B)/12]^2 \times 3.14159/4\} \times (A) \times 7.48$ Gal/Cubic Feet =		0.00
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):		
Three Well Volumes: (C) x 3 = 0.00		

Water Quality Measurements

Time Sampled: 1904

Sample ID: MW-12R

Sampler Signature: Sh. Barker



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/16/20	
Well ID: MW-13	Sampler: GB		
Depth to Water (feet): 21.25	Screen Interval (feet):	Depth to Product (feet):	Pump Depth (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet):	0.00
Begin Purge:		End Purge:	
Total Volume Removed (gallons):		(B) Well Diameter (inches):	
(C) Well Volume: {[(B)/12]^2} x 3.14159/4 x (A) x 7.48 Gal/Cubic Feet =		0.00	
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):			
Three Well Volumes: (C) x 3 =		0.00	

Water Quality Measurements

Time Sampled: 934

Sample ID: MW-13

Sampler Signature: Edu Bora



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/16/20	
Well ID: Stream 3		Sampler: GB	
Depth to Water (feet):	Screen Interval (feet):	Depth to Product (feet):	Pump Depth (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet):	0.00
Begin Purge:		End Purge:	
Total Volume Removed (gallons):		(B) Well Diameter (inches):	
(C) Well Volume: {[[(B)/12]^2] x 3.14159/4} x (A) x 7.48 Gal/Cubic Feet =		0.00	
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):			
Three Well Volumes: (C) x 3 =		0.00	

Water Quality Measurements

Time Sampled: 1330

Sample ID: Strepom 3

Sampler Signature: Glen Barry



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/16/20	
Well ID: Stream 4		Sampler: G-13	
Depth to Water (feet):	Screen Interval (feet):	Depth to Product (feet):	Pump Depth (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet):	0.00
Begin Purge:		End Purge:	
Total Volume Removed (gallons):		(B) Well Diameter (inches):	
(C) Well Volume: $\{[(B)/12]^2 \times 3.14159/4\} \times (A) \times 7.48$ Gal/Cubic Feet =		0.00	
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):			
Three Well Volumes: (C) x 3 =		0.00	

Water Quality Measurements

Time Sampled: 1354

Sample ID: Stream 4

Sampler Signature: Glen Bone



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/16/20	
Well ID: Stream 7		Sampler:	
Depth to Water (feet):	Screen Interval (feet):	Depth to Product (feet):	Pump Depth (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet):	0.00
Begin Purge:		End Purge:	
Total Volume Removed (gallons):		(B) Well Diameter (inches):	
(C) Well Volume: {[[(B)/12]^2] x 3.14159/4} x (A) x 7.48 Gal/Cubic Feet =		0.00	
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):			
Three Well Volumes: (C) x 3 =		0.00	

Water Quality Measurements

Time Sampled: 1206

Sample ID: Stream 7

Sampler Signature: Glen Bonke



WELL PURGE/SAMPLE LOG

Site Name: Cross Road Trails Rubble Landfill		Date: 09/16/20	
Well ID: Stream 8		Sampler:	
Depth to Water (feet):	Screen Interval (feet):	Depth to Product (feet):	Pump Depth (feet):
Total Well Depth (feet):	Depth to Bottom (feet):	(A) Water Column (feet):	0.00
Begin Purge:		End Purge:	
Total Volume Removed (gallons):		(B) Well Diameter (inches):	
(C) Well Volume: $\{(B)/12\}^2 \times 3.14159/4 \times (A) \times 7.48$ Gal/Cubic Feet =		0.00	
Pump Type: (Peristaltic) (Submersible) (Other Write In Type):			
Three Well Volumes: (C) x 3 =		0.00	

Water Quality Measurements

Time Sampled: 1710

Sample ID: Strawm 8

Sampler Signature: Glen Banks

TAB 5

Laboratory Analytical Reports

PHASE

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SCIENCE

Certificate of Analysis

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

800-932-9047

www.phaseonline.com

Project Name: Cross Trails
PSS Project No.: 20091601

September 30, 2020

Logan Cosgrove
Brandywine Enterprises, Inc.
5800 Sheriff Rd
Fairmount Heights, MD 20743

Reference: PSS Project No: **20091601**
Project Name: Cross Trails
Project Location: Brandywine, MD
Project ID.: 093-7



Dear Logan Cosgrove:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **20091601**.

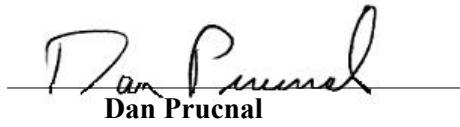
All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 21, 2020, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,


Dan Prucnal

Laboratory Manager



Explanation of Qualifiers

6630 Baltimore National Pike
Baltimore, MD 21228
410-747-8770
800-932-9047
www.phaseonline.com

Project Name: Cross Trails

PSS Project No.: 20091601

Project ID: 093-7

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/16/2020 at 11:00 am

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
20091601-001	MW-1	GROUND WATER	09/15/20 09:19
20091601-002	MW-2	GROUND WATER	09/15/20 12:20
20091601-003	MW-3	GROUND WATER	09/15/20 14:18
20091601-004	MW-7	GROUND WATER	09/15/20 17:55
20091601-005	MW-8	GROUND WATER	09/15/20 16:41
20091601-006	MW-9	GROUND WATER	09/15/20 18:59
20091601-007	MW-10	GROUND WATER	09/15/20 19:51
20091601-008	MW-11R	GROUND WATER	09/15/20 10:49
20091601-009	MW-12R	GROUND WATER	09/15/20 10:04
20091601-010	TB-1	WATER	09/15/20 00:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

PHASE

SEPARATION

SCIENCE

Explanation of Qualifiers

6630 Baltimore National Pike
Baltimore, MD 21228
410-747-8770
800-932-9047
www.phaseonline.com

Project Name: Cross Trails

PSS Project No.: 20091601

Certifications:

NELAP Certifications: PA 68-03330, VA 460156

State Certifications: MD 179, WV 303

Regulated Soil Permit: P330-12-00268

NSWC USCG Accepted Laboratory

LDBE MWAA LD1997-0041-2015

Project Name: Cross Trails
PSS Project No.: 20091601

Sample ID: MW-1 **Date/Time Sampled:** 09/15/2020 09:19 **PSS Sample ID:** 20091601-001

Matrix: GROUND WATER

Date/Time Received: 09/16/2020 11:00

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	85	NTU	5.0		10	1.8	09/16/20	09/16/20 17:50	1064

Inorganic Anions (NO_3 , Cl , SO_4)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	4.7	mg/L	5.0	J	1	0.5	09/16/20	09/16/20 16:27	1053
Nitrate	ND	mg/L	0.10		1	0.044	09/16/20	09/16/20 16:27	1053
Sulfate	60	mg/L	5.0		1	1.6	09/16/20	09/16/20 16:27	1053

Alkalinity (titrimetric)

Analytical Method: SM 2320B -11

The alkalinity to pH 4.6 = 200 mg CaCO₃/L.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO3)	200	mg/L	20		1	20	09/22/20	09/22/20 15:40	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	290	mg/L	10		1	10	09/18/20	09/19/20 13:30	1051

Certificate of Analysis

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-1	Date/Time Sampled: 09/15/2020 09:19	PSS Sample ID: 20091601-001
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Nitrogen, Ammonia	Analytical Method: SM 4500-NH3-F -2011	Preparation Method: SM4500-NH3B
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Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	0.55	mg/L	0.20		1	0.1	09/21/20	09/21/20 14:10	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	17	mg/L	5.0		1	5	09/17/20	09/17/20 14:25	1053

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 17:37	1064
Arsenic	0.0053	mg/L	0.0020		1	0.002	09/17/20	09/17/20 17:37	1064
Barium	0.059	mg/L	0.010		1	0.01	09/17/20	09/17/20 17:37	1064
Beryllium	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 17:37	1064
Cadmium	ND	mg/L	0.0040		1	0.004	09/17/20	09/17/20 17:37	1064
Calcium	84	mg/L	2.0		20	2	09/17/20	09/21/20 19:13	1064
Chromium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 17:37	1064
Cobalt	ND	mg/L	0.010		1	0.01	09/17/20	09/18/20 22:58	1064
Copper	ND	mg/L	0.010		1	0.01	09/17/20	09/22/20 20:40	1064
Iron	20	mg/L	2.0		20	2	09/17/20	09/21/20 19:13	1064
Lead	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 17:37	1064
Magnesium	18	mg/L	2.0		20	2	09/17/20	09/21/20 19:13	1064
Manganese	0.96	mg/L	0.010		1	0.01	09/17/20	09/18/20 22:58	1064
Mercury	ND	mg/L	0.00020		1	0.0002	09/17/20	09/17/20 17:37	1064
Nickel	ND	mg/L	0.011		1	0.011	09/17/20	09/18/20 22:58	1064
Potassium	3.3	mg/L	0.39		1	0.39	09/17/20	09/17/20 17:37	1064
Selenium	ND	mg/L	0.035		1	0.035	09/17/20	09/17/20 17:37	1064
Silver	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 17:37	1064

Certificate of Analysis

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-1	Date/Time Sampled: 09/15/2020 09:19	PSS Sample ID: 20091601-001
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	8.3	mg/L	0.20		1	0.2	09/17/20	09/17/20 17:37	1064
Thallium	ND	mg/L	0.0020		1	0.002	09/17/20	09/22/20 20:40	1064
Vanadium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 17:37	1064
Zinc	0.012	mg/L	0.020	J	1	0.01	09/17/20	09/17/20 17:37	1064
Hardness (Ca & Mg)	280	mg/L	13		20	13	09/17/20	09/21/20 19:13	1064

Volatiles - LF list Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Acetone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 16:52	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/18/20	09/21/20 16:52	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
2-Butanone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 16:52	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Benzene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/18/20	09/21/20 16:52	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/18/20	09/21/20 16:52	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 16:52	1011

Certificate of Analysis

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-1	Date/Time Sampled: 09/15/2020 09:19 PSS Sample ID: 20091601-001								
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00								

Volatiles - LF list	Analytical Method: SW-846 8260 B					Preparation Method: 5030B			
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	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/18/20	09/21/20 16:52	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 16:52	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 16:52	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 16:52	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/18/20	09/21/20 16:52	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 16:52	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/18/20	09/21/20 16:52	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/18/20	09/21/20 16:52	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		97	%		88-112	1		09/18/20	09/21/20 16:52
Dibromofluoromethane		101	%		93-111	1		09/18/20	09/21/20 16:52
Toluene-D8		102	%		94-107	1		09/18/20	09/21/20 16:52

Project Name: Cross Trails
PSS Project No.: 20091601

Sample ID: MW-2 Date/Time Sampled: 09/15/2020 12:20 PSS Sample ID: 20091601-002

Matrix: GROUND WATER

Date/Time Received: 09/16/2020 11:00

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	2.8	NTU	0.50		1	0.18	09/16/20	09/16/20 17:50	1064

Inorganic Anions (NO_3 , Cl , SO_4)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	2.7	mg/L	5.0	J	1	0.5	09/16/20	09/16/20 17:59	1053
Nitrate	ND	mg/L	0.10		1	0.044	09/16/20	09/16/20 17:59	1053
Sulfate	18	mg/L	5.0		1	1.6	09/16/20	09/16/20 17:59	1053

Alkalinity (Titrimetric) Low Level

Analytical Method: SM 2320B -11

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (as CaCO3)	4.8	mg/L	1.0		1	1	09/21/20	09/21/20 15:00	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	72	mg/L	10		1	10	09/18/20	09/19/20 13:30	1051

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-2	Date/Time Sampled: 09/15/2020 12:20	PSS Sample ID: 20091601-002
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Nitrogen, Ammonia	Analytical Method: SM 4500-NH3-F -2011	Preparation Method: SM4500-NH3B
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Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	ND	mg/L	0.20		1	0.1	09/21/20	09/21/20 14:14	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	ND	mg/L	5.0		1	5	09/17/20	09/17/20 14:25	1053

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:24	1064
Arsenic	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:24	1064
Barium	0.050	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:24	1064
Beryllium	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:24	1064
Cadmium	ND	mg/L	0.0040		1	0.004	09/17/20	09/17/20 18:24	1064
Calcium	6.8	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:24	1064
Chromium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:24	1064
Cobalt	ND	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:03	1064
Copper	ND	mg/L	0.010		1	0.01	09/17/20	09/22/20 20:45	1064
Iron	0.19	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:24	1064
Lead	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:24	1064
Magnesium	0.54	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:24	1064
Manganese	0.019	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:03	1064
Mercury	ND	mg/L	0.00020		1	0.0002	09/17/20	09/17/20 18:24	1064
Nickel	ND	mg/L	0.011		1	0.011	09/17/20	09/18/20 23:03	1064
Potassium	1.4	mg/L	0.39		1	0.39	09/17/20	09/17/20 18:24	1064
Selenium	ND	mg/L	0.035		1	0.035	09/17/20	09/17/20 18:24	1064
Silver	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:24	1064

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-2	Date/Time Sampled: 09/15/2020 12:20	PSS Sample ID: 20091601-002
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	3.3	mg/L	0.20		1	0.2	09/17/20	09/17/20 18:24	1064
Thallium	ND	mg/L	0.0020		1	0.002	09/17/20	09/22/20 20:45	1064
Vanadium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:24	1064
Zinc	0.026	mg/L	0.020		1	0.01	09/17/20	09/17/20 18:24	1064
Hardness (Ca & Mg)	19	mg/L	0.66		1	0.66	09/17/20	09/17/20 18:24	1064

Volatiles - LF list Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Acetone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 17:14	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/18/20	09/21/20 17:14	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
2-Butanone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 17:14	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Benzene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/18/20	09/21/20 17:14	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/18/20	09/21/20 17:14	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:14	1011

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-2	Date/Time Sampled: 09/15/2020 12:20 PSS Sample ID: 20091601-002							
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00							

Volatiles - LF list	Analytical Method: SW-846 8260 B				Preparation Method: 5030B				
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	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/18/20	09/21/20 17:14	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 17:14	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 17:14	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 17:14	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/18/20	09/21/20 17:14	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:14	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/18/20	09/21/20 17:14	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/18/20	09/21/20 17:14	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		97	%		88-112	1		09/18/20	09/21/20 17:14
Dibromofluoromethane		100	%		93-111	1		09/18/20	09/21/20 17:14
Toluene-D8		102	%		94-107	1		09/18/20	09/21/20 17:14

Project Name: Cross Trails
PSS Project No.: 20091601

Sample ID: MW-3
Matrix: GROUND WATER

Date/Time Sampled: 09/15/2020 14:18 PSS Sample ID: 20091601-003

Date/Time Received: 09/16/2020 11:00

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	3.0	NTU	0.50		1	0.18	09/16/20	09/16/20 17:50	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	4.4	mg/L	5.0	J	1	0.5	09/16/20	09/16/20 18:45	1053
Nitrate	0.045	mg/L	0.10	J	1	0.044	09/16/20	09/16/20 18:45	1053
Sulfate	21	mg/L	5.0		1	1.6	09/16/20	09/16/20 18:45	1053

Alkalinity

Analytical Method: EPA 310.2

Preparation Method: ALKALINITY

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO3)	23	mg/L	10		1	10	09/16/20	09/16/20 13:46	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	95	mg/L	10		1	10	09/18/20	09/19/20 13:30	1051

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-3 **Date/Time Sampled:** 09/15/2020 14:18 **PSS Sample ID:** 20091601-003

Matrix: GROUND WATER **Date/Time Received:** 09/16/2020 11:00

Nitrogen, Ammonia Analytical Method: SM 4500-NH3-F -2011 Preparation Method: SM4500-NH3B

Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	ND	mg/L	0.20		1	0.1	09/21/20	09/21/20 14:26	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	5.0	mg/L	5.0	J	1	5	09/17/20	09/17/20 14:25	1053

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:29	1064
Arsenic	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:29	1064
Barium	0.055	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:29	1064
Beryllium	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:29	1064
Cadmium	ND	mg/L	0.0040		1	0.004	09/17/20	09/17/20 18:29	1064
Calcium	19	mg/L	2.0		20	2	09/17/20	09/21/20 19:23	1064
Chromium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:29	1064
Cobalt	ND	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:08	1064
Copper	ND	mg/L	0.010		1	0.01	09/17/20	09/22/20 20:50	1064
Iron	0.60	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:29	1064
Lead	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:29	1064
Magnesium	2.3	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:29	1064
Manganese	0.059	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:08	1064
Mercury	ND	mg/L	0.00020		1	0.0002	09/17/20	09/17/20 18:29	1064
Nickel	ND	mg/L	0.011		1	0.011	09/17/20	09/18/20 23:08	1064
Potassium	2.1	mg/L	0.39		1	0.39	09/17/20	09/17/20 18:29	1064
Selenium	ND	mg/L	0.035		1	0.035	09/17/20	09/17/20 18:29	1064
Silver	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:29	1064

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-3	Date/Time Sampled: 09/15/2020 14:18	PSS Sample ID: 20091601-003
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	3.3	mg/L	0.20		1	0.2	09/17/20	09/17/20 18:29	1064
Thallium	ND	mg/L	0.0020		1	0.002	09/17/20	09/22/20 20:50	1064
Vanadium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:29	1064
Zinc	0.021	mg/L	0.020		1	0.01	09/17/20	09/17/20 18:29	1064
Hardness (Ca & Mg)	57	mg/L	5.4		1	5.4	09/17/20	09/17/20 18:29	1064

Volatiles - LF list Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Acetone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 17:37	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/18/20	09/21/20 17:37	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
2-Butanone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 17:37	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Benzene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/18/20	09/21/20 17:37	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/18/20	09/21/20 17:37	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:37	1011

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-3
Matrix: GROUND WATER

Date/Time Sampled: 09/15/2020 14:18 PSS Sample ID: 20091601-003

Date/Time Received: 09/16/2020 11:00

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/18/20	09/21/20 17:37	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 17:37	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 17:37	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 17:37	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/18/20	09/21/20 17:37	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:37	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/18/20	09/21/20 17:37	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/18/20	09/21/20 17:37	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		97	%		88-112	1		09/18/20	09/21/20 17:37 1011
Dibromofluoromethane		101	%		93-111	1		09/18/20	09/21/20 17:37 1011
Toluene-D8		101	%		94-107	1		09/18/20	09/21/20 17:37 1011

Project Name: Cross Trails
PSS Project No.: 20091601

Sample ID: MW-7 **Date/Time Sampled:** 09/15/2020 17:55 **PSS Sample ID:** 20091601-004

Matrix: GROUND WATER

Date/Time Received: 09/16/2020 11:00

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	0.90	NTU	0.50		1	0.18	09/16/20	09/16/20 17:50	1064

Inorganic Anions (NO_3 , Cl , SO_4)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	2.9	mg/L	5.0	J	1	0.5	09/16/20	09/16/20 19:08	1053
Nitrate	ND	mg/L	0.10		1	0.044	09/16/20	09/16/20 19:08	1053
Sulfate	17	mg/L	5.0		1	1.6	09/16/20	09/16/20 19:08	1053

Alkalinity (Titrimetric) Low Level

Analytical Method: SM 2320B -11

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (as CaCO3)	ND	mg/L	1.0		1	1	09/21/20	09/21/20 15:00	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	47	mg/L	10		1	10	09/18/20	09/19/20 13:30	1051

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-7	Date/Time Sampled: 09/15/2020 17:55	PSS Sample ID: 20091601-004
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Nitrogen, Ammonia	Analytical Method: SM 4500-NH3-F -2011	Preparation Method: SM4500-NH3B
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Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	ND	mg/L	0.20		1	0.1	09/21/20	09/21/20 14:30	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	ND	mg/L	5.0		1	5	09/17/20	09/17/20 14:25	1053

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:34	1064
Arsenic	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:34	1064
Barium	0.070	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:34	1064
Beryllium	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:34	1064
Cadmium	ND	mg/L	0.0040		1	0.004	09/17/20	09/17/20 18:34	1064
Calcium	0.44	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:34	1064
Chromium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:34	1064
Cobalt	ND	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:13	1064
Copper	ND	mg/L	0.010		1	0.01	09/17/20	09/22/20 20:55	1064
Iron	0.79	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:34	1064
Lead	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:34	1064
Magnesium	2.6	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:34	1064
Manganese	0.13	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:13	1064
Mercury	ND	mg/L	0.00020		1	0.0002	09/17/20	09/17/20 18:34	1064
Nickel	ND	mg/L	0.011		1	0.011	09/17/20	09/18/20 23:13	1064
Potassium	0.65	mg/L	0.39		1	0.39	09/17/20	09/17/20 18:34	1064
Selenium	ND	mg/L	0.035		1	0.035	09/17/20	09/17/20 18:34	1064
Silver	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:34	1064

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-7	Date/Time Sampled: 09/15/2020 17:55	PSS Sample ID: 20091601-004
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	2.6	mg/L	0.20		1	0.2	09/17/20	09/17/20 18:34	1064
Thallium	ND	mg/L	0.0020		1	0.002	09/17/20	09/22/20 20:55	1064
Vanadium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:34	1064
Zinc	0.016	mg/L	0.020	J	1	0.01	09/17/20	09/17/20 18:34	1064
Hardness (Ca & Mg)	12	mg/L	0.66		1	0.66	09/17/20	09/17/20 18:34	1064

Volatiles - LF list Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Acetone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 17:59	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/18/20	09/21/20 17:59	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
2-Butanone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 17:59	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Benzene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/18/20	09/21/20 17:59	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/18/20	09/21/20 17:59	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 17:59	1011

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-7	Date/Time Sampled: 09/15/2020 17:55 PSS Sample ID: 20091601-004							
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00							

Volatiles - LF list	Analytical Method: SW-846 8260 B				Preparation Method: 5030B				
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	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/18/20	09/21/20 17:59	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 17:59	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 17:59	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 17:59	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/18/20	09/21/20 17:59	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 17:59	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/18/20	09/21/20 17:59	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/18/20	09/21/20 17:59	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		97	%		88-112	1		09/18/20	09/21/20 17:59
Dibromofluoromethane		100	%		93-111	1		09/18/20	09/21/20 17:59
Toluene-D8		100	%		94-107	1		09/18/20	09/21/20 17:59

Project Name: Cross Trails
PSS Project No.: 20091601

Sample ID: MW-8 **Date/Time Sampled:** 09/15/2020 16:41 **PSS Sample ID:** 20091601-005

Matrix: GROUND WATER

Date/Time Received: 09/16/2020 11:00

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	8.4	NTU	0.50		1	0.18	09/16/20	09/16/20 17:50	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	7.6	mg/L	5.0		1	0.5	09/16/20	09/16/20 19:31	1053
Nitrate	ND	mg/L	0.10		1	0.044	09/16/20	09/16/20 19:31	1053
Sulfate	15	mg/L	5.0		1	1.6	09/16/20	09/16/20 19:31	1053

Alkalinity

Analytical Method: EPA 310.2

Preparation Method: ALKALINITY

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO ₃)	66	mg/L	10		1	10	09/16/20	09/16/20 13:48	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	170	mg/L	10		1	10	09/18/20	09/19/20 13:30	1051

Project Name: Cross Trails
PSS Project No.: 20091601

Sample ID: MW-8 Date/Time Sampled: 09/15/2020 16:41 PSS Sample ID: 20091601-005

Matrix: GROUND WATER

Date/Time Received: 09/16/2020 11:00

Nitrogen, Ammonia

Analytical Method: SM 4500-NH3-F -2011

Preparation Method: SM4500-NH3B

Qualifier(s): See Batch 178048 on Case Narrative.

Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	ND	mg/L	0.20	1	0.1	09/21/20	09/21/20 14:34	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	8.0	mg/L	5.0		1	5	09/17/20	09/17/20 14:25	1053

Total Metals (Ground Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:39	1064
Arsenic	0.0057	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:39	1064
Barium	0.021	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:39	1064
Beryllium	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:39	1064
Cadmium	ND	mg/L	0.0040		1	0.004	09/17/20	09/17/20 18:39	1064
Calcium	0.99	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:39	1064
Chromium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:39	1064
Cobalt	ND	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:19	1064
Copper	ND	mg/L	0.010		1	0.01	09/17/20	09/22/20 21:37	1064
Iron	40	mg/L	2.0		20	2	09/17/20	09/21/20 19:34	1064
Lead	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:39	1064
Magnesium	4.2	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:39	1064
Manganese	0.21	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:19	1064
Mercury	ND	mg/L	0.00020		1	0.0002	09/17/20	09/17/20 18:39	1064
Nickel	ND	mg/L	0.011		1	0.011	09/17/20	09/18/20 23:19	1064
Potassium	ND	mg/L	0.39		1	0.39	09/17/20	09/17/20 18:39	1064
Selenium	ND	mg/L	0.035		1	0.035	09/17/20	09/17/20 18:39	1064
Silver	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:39	1064

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-8	Date/Time Sampled: 09/15/2020 16:41	PSS Sample ID: 20091601-005
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	5.6	mg/L	0.20		1	0.2	09/17/20	09/17/20 18:39	1064
Thallium	ND	mg/L	0.0020		1	0.002	09/17/20	09/22/20 21:37	1064
Vanadium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:39	1064
Zinc	0.010	mg/L	0.020	J	1	0.01	09/17/20	09/17/20 18:39	1064
Hardness (Ca & Mg)	20	mg/L	0.66		1	0.66	09/17/20	09/17/20 18:39	1064

Volatiles - LF list Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Acetone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 18:22	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/18/20	09/21/20 18:22	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
2-Butanone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 18:22	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Benzene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/18/20	09/21/20 18:22	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/18/20	09/21/20 18:22	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:22	1011

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-8
Matrix: GROUND WATER

Date/Time Sampled: 09/15/2020 16:41 PSS Sample ID: 20091601-005

Date/Time Received: 09/16/2020 11:00

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/18/20	09/21/20 18:22	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 18:22	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 18:22	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 18:22	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/18/20	09/21/20 18:22	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:22	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/18/20	09/21/20 18:22	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/18/20	09/21/20 18:22	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		97	%		88-112	1		09/18/20	09/21/20 18:22 1011
Dibromofluoromethane		101	%		93-111	1		09/18/20	09/21/20 18:22 1011
Toluene-D8		101	%		94-107	1		09/18/20	09/21/20 18:22 1011

Project Name: Cross Trails
PSS Project No.: 20091601

Sample ID: MW-9
Matrix: GROUND WATER

Date/Time Sampled: 09/15/2020 18:59 PSS Sample ID: 20091601-006

Date/Time Received: 09/16/2020 11:00

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	2.5	NTU	0.50		1	0.18	09/16/20	09/16/20 17:50	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	2.3	mg/L	5.0	J	1	0.5	09/16/20	09/16/20 19:54	1053
Nitrate	ND	mg/L	0.10		1	0.044	09/16/20	09/16/20 19:54	1053
Sulfate	9.6	mg/L	5.0		1	1.6	09/16/20	09/16/20 19:54	1053

Alkalinity

Analytical Method: EPA 310.2

Preparation Method: ALKALINITY

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO3)	88	mg/L	10		1	10	09/16/20	09/16/20 13:51	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	130	mg/L	10		1	10	09/18/20	09/19/20 13:30	1051

Project Name: Cross Trails
PSS Project No.: 20091601

Sample ID: MW-9 **Date/Time Sampled:** 09/15/2020 18:59 **PSS Sample ID:** 20091601-006

Matrix: GROUND WATER

Date/Time Received: 09/16/2020 11:00

Nitrogen, Ammonia

Analytical Method: SM 4500-NH3-F -2011

Preparation Method: SM4500-NH3B

Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	0.17	mg/L	0.20	J	1	0.1	09/21/20	09/21/20 14:38	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	22	mg/L	5.0		1	5	09/17/20	09/17/20 14:25	1053

Total Metals (Ground Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:44	1064
Arsenic	0.0022	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:44	1064
Barium	0.053	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:44	1064
Beryllium	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:44	1064
Cadmium	ND	mg/L	0.0040		1	0.004	09/17/20	09/17/20 18:44	1064
Calcium	17	mg/L	2.0		20	2	09/17/20	09/21/20 19:39	1064
Chromium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:44	1064
Cobalt	ND	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:24	1064
Copper	ND	mg/L	0.010		1	0.01	09/17/20	09/22/20 21:42	1064
Iron	25	mg/L	2.0		20	2	09/17/20	09/21/20 19:39	1064
Lead	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:44	1064
Magnesium	3.5	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:44	1064
Manganese	0.54	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:24	1064
Mercury	ND	mg/L	0.00020		1	0.0002	09/17/20	09/17/20 18:44	1064
Nickel	ND	mg/L	0.011		1	0.011	09/17/20	09/18/20 23:24	1064
Potassium	1.2	mg/L	0.39		1	0.39	09/17/20	09/17/20 18:44	1064
Selenium	ND	mg/L	0.035		1	0.035	09/17/20	09/17/20 18:44	1064
Silver	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:44	1064

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-9	Date/Time Sampled: 09/15/2020 18:59	PSS Sample ID: 20091601-006
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	2.1	mg/L	0.20		1	0.2	09/17/20	09/17/20 18:44	1064
Thallium	ND	mg/L	0.0020		1	0.002	09/17/20	09/22/20 21:42	1064
Vanadium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:44	1064
Zinc	0.012	mg/L	0.020	J	1	0.01	09/17/20	09/17/20 18:44	1064
Hardness (Ca & Mg)	58	mg/L	5.4		1	5.4	09/17/20	09/17/20 18:44	1064

Volatiles - LF list Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Acetone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 18:44	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/18/20	09/21/20 18:44	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
2-Butanone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 18:44	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Benzene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/18/20	09/21/20 18:44	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/18/20	09/21/20 18:44	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 18:44	1011

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-9	Date/Time Sampled: 09/15/2020 18:59 PSS Sample ID: 20091601-006								
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00								

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/18/20	09/21/20 18:44	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 18:44	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 18:44	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 18:44	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/18/20	09/21/20 18:44	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 18:44	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/18/20	09/21/20 18:44	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/18/20	09/21/20 18:44	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		97	%		88-112	1		09/18/20	09/21/20 18:44
Dibromofluoromethane		101	%		93-111	1		09/18/20	09/21/20 18:44
Toluene-D8		101	%		94-107	1		09/18/20	09/21/20 18:44

Project Name: Cross Trails
PSS Project No.: 20091601

Sample ID: MW-10 **Date/Time Sampled:** 09/15/2020 19:51 **PSS Sample ID:** 20091601-007

Matrix: GROUND WATER

Date/Time Received: 09/16/2020 11:00

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	0.30	NTU	0.50	J	1	0.18	09/16/20	09/16/20 17:50	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	37	mg/L	5.0		1	0.5	09/16/20	09/16/20 20:17	1053
Nitrate	0.68	mg/L	0.10		1	0.044	09/16/20	09/16/20 20:17	1053
Sulfate	24	mg/L	5.0		1	1.6	09/16/20	09/16/20 20:17	1053

Alkalinity (Titrimetric) Low Level

Analytical Method: SM 2320B -11

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (as CaCO3)	ND	mg/L	1.0		1	1	09/21/20	09/21/20 15:00	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	210	mg/L	10		1	10	09/18/20	09/19/20 13:30	1051

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-10	Date/Time Sampled: 09/15/2020 19:51	PSS Sample ID: 20091601-007
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Nitrogen, Ammonia	Analytical Method: SM 4500-NH3-F -2011	Preparation Method: SM4500-NH3B
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Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	ND	mg/L	0.20		1	0.1	09/21/20	09/21/20 14:42	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	9.0	mg/L	5.0		1	5	09/17/20	09/17/20 14:25	1053

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:49	1064
Arsenic	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:49	1064
Barium	0.064	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:49	1064
Beryllium	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:49	1064
Cadmium	ND	mg/L	0.0040		1	0.004	09/17/20	09/17/20 18:49	1064
Calcium	2.7	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:49	1064
Chromium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:49	1064
Cobalt	ND	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:29	1064
Copper	ND	mg/L	0.010		1	0.01	09/17/20	09/22/20 21:47	1064
Iron	ND	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:49	1064
Lead	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 18:49	1064
Magnesium	1.2	mg/L	0.10		1	0.1	09/17/20	09/17/20 18:49	1064
Manganese	0.035	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:29	1064
Mercury	ND	mg/L	0.00020		1	0.0002	09/17/20	09/17/20 18:49	1064
Nickel	ND	mg/L	0.011		1	0.011	09/17/20	09/18/20 23:29	1064
Potassium	1.0	mg/L	0.39		1	0.39	09/17/20	09/17/20 18:49	1064
Selenium	ND	mg/L	0.035		1	0.035	09/17/20	09/17/20 18:49	1064
Silver	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:49	1064

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-10	Date/Time Sampled: 09/15/2020 19:51	PSS Sample ID: 20091601-007
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	31	mg/L	4.0		20	4	09/17/20	09/21/20 19:44	1064
Thallium	ND	mg/L	0.0020		1	0.002	09/17/20	09/22/20 21:47	1064
Vanadium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 18:49	1064
Zinc	0.019	mg/L	0.020	J	1	0.01	09/17/20	09/17/20 18:49	1064
Hardness (Ca & Mg)	12	mg/L	0.66		1	0.66	09/17/20	09/17/20 18:49	1064

Volatiles - LF list Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Acetone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 19:07	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/18/20	09/21/20 19:07	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
2-Butanone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 19:07	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Benzene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/18/20	09/21/20 19:07	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/18/20	09/21/20 19:07	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:07	1011

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-10
Matrix: GROUND WATER

Date/Time Sampled: 09/15/2020 19:51 PSS Sample ID: 20091601-007

Date/Time Received: 09/16/2020 11:00

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/18/20	09/21/20 19:07	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 19:07	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 19:07	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 19:07	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/18/20	09/21/20 19:07	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:07	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/18/20	09/21/20 19:07	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/18/20	09/21/20 19:07	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		98	%		88-112	1		09/18/20	09/21/20 19:07
Dibromofluoromethane		102	%		93-111	1		09/18/20	09/21/20 19:07
Toluene-D8		101	%		94-107	1		09/18/20	09/21/20 19:07

Project Name: Cross Trails
PSS Project No.: 20091601

Sample ID: MW-11R
Matrix: GROUND WATER

Date/Time Sampled: 09/15/2020 10:49 PSS Sample ID: 20091601-008

Date/Time Received: 09/16/2020 11:00

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	1.7	NTU	0.50		1	0.18	09/16/20	09/16/20 17:50	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	89	mg/L	5.0		1	0.5	09/16/20	09/16/20 20:40	1053
Nitrate	0.42	mg/L	0.10		1	0.044	09/16/20	09/16/20 20:40	1053
Sulfate	35	mg/L	5.0		1	1.6	09/16/20	09/16/20 20:40	1053

Alkalinity

Analytical Method: EPA 310.2

Preparation Method: ALKALINITY

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO3)	80	mg/L	10		1	10	09/16/20	09/16/20 13:52	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	360	mg/L	10		1	10	09/18/20	09/19/20 13:30	1051

Project Name: Cross Trails
PSS Project No.: 20091601

Sample ID: MW-11R
Matrix: GROUND WATER

Date/Time Sampled: 09/15/2020 10:49 PSS Sample ID: 20091601-008

Date/Time Received: 09/16/2020 11:00

Nitrogen, Ammonia

Analytical Method: SM 4500-NH3-F -2011

Preparation Method: SM4500-NH3B

Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	ND	mg/L	0.20		1	0.1	09/21/20	09/21/20 14:46	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	46	mg/L	5.0		1	5	09/17/20	09/17/20 14:25	1053

Total Metals (Ground Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony		ND	mg/L	0.0020	1	0.002	09/17/20	09/17/20 19:15	1064
Arsenic		ND	mg/L	0.0020	1	0.002	09/17/20	09/17/20 19:15	1064
Barium	0.040	mg/L	0.010		1	0.01	09/17/20	09/17/20 19:15	1064
Beryllium		ND	mg/L	0.0020	1	0.002	09/17/20	09/17/20 19:15	1064
Cadmium		ND	mg/L	0.0040	1	0.004	09/17/20	09/17/20 19:15	1064
Calcium	5.3	mg/L	0.10		1	0.1	09/17/20	09/17/20 19:15	1064
Chromium		ND	mg/L	0.010	1	0.01	09/17/20	09/17/20 19:15	1064
Cobalt		ND	mg/L	0.010	1	0.01	09/17/20	09/18/20 23:34	1064
Copper		ND	mg/L	0.010	1	0.01	09/17/20	09/22/20 21:52	1064
Iron	1.3	mg/L	0.10		1	0.1	09/17/20	09/17/20 19:15	1064
Lead		ND	mg/L	0.0020	1	0.002	09/17/20	09/17/20 19:15	1064
Magnesium		2.0	mg/L	0.10	1	0.1	09/17/20	09/17/20 19:15	1064
Manganese		0.030	mg/L	0.010	1	0.01	09/17/20	09/18/20 23:34	1064
Mercury		ND	mg/L	0.00020	1	0.0002	09/17/20	09/17/20 19:15	1064
Nickel		0.014	mg/L	0.011	1	0.011	09/17/20	09/18/20 23:34	1064
Potassium		5.9	mg/L	0.39	1	0.39	09/17/20	09/17/20 19:15	1064
Selenium		ND	mg/L	0.035	1	0.035	09/17/20	09/17/20 19:15	1064
Silver		ND	mg/L	0.010	1	0.01	09/17/20	09/17/20 19:15	1064

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-11R	Date/Time Sampled: 09/15/2020 10:49	PSS Sample ID: 20091601-008
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	110	mg/L	4.0		20	4	09/17/20	09/21/20 19:49	1064
Thallium	ND	mg/L	0.0020		1	0.002	09/17/20	09/22/20 21:52	1064
Vanadium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 19:15	1064
Zinc	0.024	mg/L	0.020		1	0.01	09/17/20	09/17/20 19:15	1064
Hardness (Ca & Mg)	22	mg/L	0.66		1	0.66	09/17/20	09/17/20 19:15	1064

Volatiles - LF list Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
Acetone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 19:29	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/18/20	09/21/20 19:29	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
Methylene Chloride	0.78	ug/L	1.0	J	1	0.5	09/18/20	09/21/20 19:29	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
Methyl-t-butyl ether	3.8	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
1,1-Dichloroethane	0.97	ug/L	1.0	J	1	0.5	09/18/20	09/21/20 19:29	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
2-Butanone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 19:29	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
Benzene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/18/20	09/21/20 19:29	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/18/20	09/21/20 19:29	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:29	1011

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-11R
Matrix: GROUND WATER

Date/Time Sampled: 09/15/2020 10:49 PSS Sample ID: 20091601-008

Date/Time Received: 09/16/2020 11:00

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/18/20	09/21/20 19:29	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 19:29	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 19:29	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 19:29	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/18/20	09/21/20 19:29	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:29	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/18/20	09/21/20 19:29	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/18/20	09/21/20 19:29	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		97	%		88-112	1		09/18/20	09/21/20 19:29
Dibromofluoromethane		102	%		93-111	1		09/18/20	09/21/20 19:29
Toluene-D8		102	%		94-107	1		09/18/20	09/21/20 19:29

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Project Name: Cross Trails
PSS Project No.: 20091601

Sample ID: MW-12R **Date/Time Sampled:** 09/15/2020 10:04 **PSS Sample ID:** 20091601-009

Matrix: GROUND WATER

Date/Time Received: 09/16/2020 11:00

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	400	NTU	10		20	3.6	09/16/20	09/16/20 17:50	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	67	mg/L	5.0		1	0.5	09/16/20	09/16/20 21:03	1053
Nitrate	ND	mg/L	0.10		1	0.044	09/16/20	09/16/20 21:03	1053
Sulfate	ND	mg/L	5.0		1	1.6	09/16/20	09/16/20 21:03	1053

Alkalinity (titrimetric)

Analytical Method: SM 2320B -11

The alkalinity to pH 4.4 = 370 mg CaCO₃/L.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO3)	370	mg/L	20		1	20	09/22/20	09/22/20 15:40	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	490	mg/L	10		1	10	09/18/20	09/19/20 13:30	1051

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-12R	Date/Time Sampled: 09/15/2020 10:04	PSS Sample ID: 20091601-009
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Nitrogen, Ammonia	Analytical Method: SM 4500-NH3-F -2011	Preparation Method: SM4500-NH3B
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Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	6.7	mg/L	1.9		9.375	0.94	09/21/20	09/21/20 16:15	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	80	mg/L	5.0		1	5	09/17/20	09/17/20 14:25	1053

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 19:20	1064
Arsenic	0.0095	mg/L	0.0020		1	0.002	09/17/20	09/17/20 19:20	1064
Barium	0.17	mg/L	0.010		1	0.01	09/17/20	09/17/20 19:20	1064
Beryllium	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 19:20	1064
Cadmium	ND	mg/L	0.0040		1	0.004	09/17/20	09/17/20 19:20	1064
Calcium	57	mg/L	2.0		20	2	09/17/20	09/21/20 19:55	1064
Chromium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 19:20	1064
Cobalt	ND	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:39	1064
Copper	ND	mg/L	0.010		1	0.01	09/17/20	09/22/20 21:57	1064
Iron	69	mg/L	2.0		20	2	09/17/20	09/21/20 19:55	1064
Lead	ND	mg/L	0.0020		1	0.002	09/17/20	09/17/20 19:20	1064
Magnesium	38	mg/L	2.0		20	2	09/17/20	09/21/20 19:55	1064
Manganese	0.74	mg/L	0.010		1	0.01	09/17/20	09/18/20 23:39	1064
Mercury	ND	mg/L	0.00020		1	0.0002	09/17/20	09/17/20 19:20	1064
Nickel	ND	mg/L	0.011		1	0.011	09/17/20	09/18/20 23:39	1064
Potassium	12	mg/L	7.8		20	7.8	09/17/20	09/21/20 19:55	1064
Selenium	ND	mg/L	0.035		1	0.035	09/17/20	09/17/20 19:20	1064
Silver	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 19:20	1064

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-12R	Date/Time Sampled: 09/15/2020 10:04	PSS Sample ID: 20091601-009
Matrix: GROUND WATER	Date/Time Received: 09/16/2020 11:00	

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

Qualifier(s): See Batch 177965 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	72	mg/L	4.0		20	4	09/17/20	09/21/20 19:55	1064
Thallium	ND	mg/L	0.0020		1	0.002	09/17/20	09/22/20 21:57	1064
Vanadium	ND	mg/L	0.010		1	0.01	09/17/20	09/17/20 19:20	1064
Zinc	0.012	mg/L	0.020	J	1	0.01	09/17/20	09/17/20 19:20	1064
Hardness (Ca & Mg)	300	mg/L	13		20	13	09/17/20	09/21/20 19:55	1064

Volatiles - LF list Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Acetone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 19:52	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/18/20	09/21/20 19:52	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Methyl-t-butyl ether	1.9	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
2-Butanone	ND	ug/L	5.0		1	5	09/18/20	09/21/20 19:52	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Benzene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/18/20	09/21/20 19:52	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/18/20	09/21/20 19:52	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/18/20	09/21/20 19:52	1011

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: MW-12R
Matrix: GROUND WATER

Date/Time Sampled: 09/15/2020 10:04 PSS Sample ID: 20091601-009

Date/Time Received: 09/16/2020 11:00

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/18/20	09/21/20 19:52	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 19:52	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 19:52	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/18/20	09/21/20 19:52	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/18/20	09/21/20 19:52	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/18/20	09/21/20 19:52	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/18/20	09/21/20 19:52	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/18/20	09/21/20 19:52	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		98	%		88-112	1		09/18/20	09/21/20 19:52 1011
Dibromofluoromethane		100	%		93-111	1		09/18/20	09/21/20 19:52 1011
Toluene-D8		101	%		94-107	1		09/18/20	09/21/20 19:52 1011

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: TB-1

Date/Time Sampled: 09/15/2020 00:00 **PSS Sample ID:** 20091601-010

Matrix: WATER

Date/Time Received: 09/16/2020 11:00

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Vinyl Chloride	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Bromomethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Chloroethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Acetone	ND	ug/L	5.0	1	5	09/22/20	09/22/20 16:31	1011	
Trichlorofluoromethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
1,1-Dichloroethene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Methylene Chloride	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
trans-1,2-dichloroethene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Methyl-t-butyl ether	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
1,1-Dichloroethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Vinyl Acetate	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
2-Butanone	ND	ug/L	5.0	1	5	09/22/20	09/22/20 16:31	1011	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Bromochloromethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Chloroform	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
1,1,1-Trichloroethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
1,2-Dichloroethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Carbon Tetrachloride	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Benzene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Dibromomethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
1,2-Dichloropropane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Acrylonitrile	ND	ug/L	5.0	1	5	09/22/20	09/22/20 16:31	1011	
Trichloroethene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Carbon Disulfide	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Bromodichloromethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 16:31	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
1,1,2-Trichloroethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Toluene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
2-Hexanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 16:31	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
Dibromochloromethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:31	1011

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Project Name: Cross Trails
 PSS Project No.: 20091601

Sample ID: TB-1

Date/Time Sampled: 09/15/2020 00:00 **PSS Sample ID:** 20091601-010

Matrix: WATER

Date/Time Received: 09/16/2020 11:00

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Bromoform	ND	ug/L	5.0	1		2.5	09/22/20	09/22/20 16:31	1011
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1		0.5	09/22/20	09/22/20 16:31	1011
Tetrachloroethylene	ND	ug/L	1.0	1		0.5	09/22/20	09/22/20 16:31	1011
Chlorobenzene	ND	ug/L	1.0	1		0.5	09/22/20	09/22/20 16:31	1011
Ethylbenzene	ND	ug/L	1.0	1		0.5	09/22/20	09/22/20 16:31	1011
m,p-Xylenes	ND	ug/L	2.0	1		1	09/22/20	09/22/20 16:31	1011
Styrene	ND	ug/L	1.0	1		0.5	09/22/20	09/22/20 16:31	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		0.5	09/22/20	09/22/20 16:31	1011
o-Xylene	ND	ug/L	1.0	1		0.5	09/22/20	09/22/20 16:31	1011
1,2,3-Trichloropropane	ND	ug/L	1.0	1		0.5	09/22/20	09/22/20 16:31	1011
1,4-Dichlorobenzene	ND	ug/L	1.0	1		0.5	09/22/20	09/22/20 16:31	1011
1,2-Dichlorobenzene	ND	ug/L	1.0	1		0.5	09/22/20	09/22/20 16:31	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1		1	09/22/20	09/22/20 16:31	1011
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1		1	09/22/20	09/22/20 16:31	1011

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	99	%	88-112	1		09/22/20	09/22/20 16:31 1011
Dibromofluoromethane	101	%	93-111	1		09/22/20	09/22/20 16:31 1011
Toluene-D8	100	%	94-107	1		09/22/20	09/22/20 16:31 1011

Project Name: Cross Trails

PSS Project No.: 20091601

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

Preservative not indicated on COC for VOC, metals, NH₃, or COD. Received containers preserved with HCl, HNO₃, and H₂SO₄.

General Comments:

Metals results reflect project specific reporting limits and do not reflect laboratory MDLs.

Analytical:**Nitrogen, Ammonia****Batch: 178048**

The closing CCV for 20091601-001 through -008, and the opening CCV for 20091601-009 was below the control limit of 90% at 89%. However, as the CCV was made from a secondary source, it passed the criteria for the ICV of 85-115%, and, as such, the CCV was acceptable.

Analytical:**Total Metals (Ground Water)****Batch: 177965**

Matrix Spike/Matrix Spike Duplicate (MS/MSD) exceedances identified; see QC summary form. The concentration of the following analytes in the reference sample was greater than four times the matrix spike concentration: calcium, iron, magnesium, manganese, potassium, sodium

Batch: 178110

Method exceedance: Laboratory Control Sample (LCS) falls outside of acceptance limits (80% - 120%) for thallium at 76% recovery. Sample(s) is/are non-detect for this analyte and all low-level calibration verifications (LLCCV) pass.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Project Name: Cross Trails
PSS Project No.: 20091601

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
EPA 180.1	MW-1	Initial	20091601-001	W	177878	177878	09/16/2020 17:50	09/16/2020 17:50
	MW-2	Initial	20091601-002	W	177878	177878	09/16/2020 17:50	09/16/2020 17:50
	MW-3	Initial	20091601-003	W	177878	177878	09/16/2020 17:50	09/16/2020 17:50
	MW-7	Initial	20091601-004	W	177878	177878	09/16/2020 17:50	09/16/2020 17:50
	MW-8	Initial	20091601-005	W	177878	177878	09/16/2020 17:50	09/16/2020 17:50
	MW-9	Initial	20091601-006	W	177878	177878	09/16/2020 17:50	09/16/2020 17:50
	MW-10	Initial	20091601-007	W	177878	177878	09/16/2020 17:50	09/16/2020 17:50
	MW-11R	Initial	20091601-008	W	177878	177878	09/16/2020 17:50	09/16/2020 17:50
	MW-12R	Initial	20091601-009	W	177878	177878	09/16/2020 17:50	09/16/2020 17:50
	177878-1-BLK	BLK	177878-1-BLK	W	177878	177878	09/16/2020 17:50	09/16/2020 17:50
	MW-1 D	MD	20091601-001 D	W	177878	177878	09/16/2020 17:50	09/16/2020 17:50
EPA 300.0	MW-1	Initial	20091601-001	W	83102	177910	09/16/2020 12:40	09/16/2020 16:27
	MW-2	Initial	20091601-002	W	83102	177910	09/16/2020 12:40	09/16/2020 17:59
	MW-3	Initial	20091601-003	W	83102	177910	09/16/2020 12:40	09/16/2020 18:45
	MW-7	Initial	20091601-004	W	83102	177910	09/16/2020 12:40	09/16/2020 19:08
	MW-8	Initial	20091601-005	W	83102	177910	09/16/2020 12:40	09/16/2020 19:31
	MW-9	Initial	20091601-006	W	83102	177910	09/16/2020 12:40	09/16/2020 19:54
	MW-10	Initial	20091601-007	W	83102	177910	09/16/2020 12:40	09/16/2020 20:17
	MW-11R	Initial	20091601-008	W	83102	177910	09/16/2020 12:40	09/16/2020 20:40
	MW-12R	Initial	20091601-009	W	83102	177910	09/16/2020 12:40	09/16/2020 21:03
	83102-1-BKS	BKS	83102-1-BKS	W	83102	177910	09/16/2020 10:30	09/16/2020 12:15
	83102-1-BLK	BLK	83102-1-BLK	W	83102	177910	09/16/2020 10:30	09/16/2020 11:52
	Duplicate 1-09152020 S	MS	20091530-001 S	W	83102	177910	09/16/2020 11:30	09/16/2020 13:23
	MW-2 S	MS	20091601-002 S	W	83102	177910	09/16/2020 12:40	09/16/2020 18:22
	Duplicate 1-09152020 SD	MSD	20091530-001 S	W	83102	177910	09/16/2020 11:30	09/16/2020 13:46
EPA 310.2	MW-3	Initial	20091601-003	W	83104	177860	09/16/2020 11:52	09/16/2020 13:46
	MW-8	Initial	20091601-005	W	83104	177860	09/16/2020 11:52	09/16/2020 13:48
	MW-9	Initial	20091601-006	W	83104	177860	09/16/2020 11:52	09/16/2020 13:51
	MW-11R	Initial	20091601-008	W	83104	177860	09/16/2020 11:52	09/16/2020 13:52
	83104-1-BKS	BKS	83104-1-BKS	W	83104	177860	09/16/2020 11:52	09/16/2020 13:40
	83104-1-BLK	BLK	83104-1-BLK	W	83104	177860	09/16/2020 11:52	09/16/2020 13:39
	83104-1-BSD	BSD	83104-1-BSD	W	83104	177860	09/16/2020 11:52	09/16/2020 13:42
	MW-8 D	MD	20091601-005 D	W	83104	177860	09/16/2020 11:52	09/16/2020 13:50
SM 2320B -11	MW-1	Initial	20091601-001	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40
	MW-12R	Initial	20091601-009	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40
	178064-1-BKS	BKS	178064-1-BKS	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40
	178064-1-BLK	BLK	178064-1-BLK	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40
	MW-1 D	MD	20091601-001 D	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40
SM 2320B -11	MW-2	Initial	20091601-002	W	178007	178007	09/21/2020 15:00	09/21/2020 15:00
	MW-7	Initial	20091601-004	W	178007	178007	09/21/2020 15:00	09/21/2020 15:00
	MW-10	Initial	20091601-007	W	178007	178007	09/21/2020 15:00	09/21/2020 15:00
	178007-1-BKS	BKS	178007-1-BKS	W	178007	178007	09/21/2020 15:00	09/21/2020 15:00
	178007-1-BLK	BLK	178007-1-BLK	W	178007	178007	09/21/2020 15:00	09/21/2020 15:00

Project Name: Cross Trails
PSS Project No.: 20091601

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
SM 2320B -11	MW-2 D	MD	20091601-002 D	W	178007	178007	09/21/2020 15:00	09/21/2020 15:00
SM 2540C -2011	MW-1	Initial	20091601-001	W	83150	177987	09/18/2020 17:15	09/19/2020 13:30
	MW-2	Initial	20091601-002	W	83150	177987	09/18/2020 17:15	09/19/2020 13:30
	MW-3	Initial	20091601-003	W	83150	177987	09/18/2020 17:15	09/19/2020 13:30
	MW-7	Initial	20091601-004	W	83150	177987	09/18/2020 17:15	09/19/2020 13:30
	MW-8	Initial	20091601-005	W	83150	177987	09/18/2020 17:15	09/19/2020 13:30
	MW-9	Initial	20091601-006	W	83150	177987	09/18/2020 17:15	09/19/2020 13:30
	MW-10	Initial	20091601-007	W	83150	177987	09/18/2020 17:15	09/19/2020 13:30
	MW-11R	Initial	20091601-008	W	83150	177987	09/18/2020 17:15	09/19/2020 13:30
	MW-12R	Initial	20091601-009	W	83150	177987	09/18/2020 17:15	09/19/2020 13:30
	83150-1-BKS	BKS	83150-1-BKS	W	83150	177987	09/18/2020 17:15	09/19/2020 13:30
	83150-1-BLK	BLK	83150-1-BLK	W	83150	177987	09/18/2020 17:15	09/19/2020 13:30
	MW-1 D	MD	20091601-001 D	W	83150	177987	09/18/2020 17:15	09/19/2020 13:30
SM 4500-NH3-F - 2011	MW-1	Initial	20091601-001	W	83162	178048	09/21/2020 11:10	09/21/2020 14:10
	MW-2	Initial	20091601-002	W	83162	178048	09/21/2020 11:10	09/21/2020 14:14
	MW-3	Initial	20091601-003	W	83162	178048	09/21/2020 11:10	09/21/2020 14:26
	MW-7	Initial	20091601-004	W	83162	178048	09/21/2020 11:10	09/21/2020 14:30
	MW-8	Initial	20091601-005	W	83162	178048	09/21/2020 11:10	09/21/2020 14:34
	MW-9	Initial	20091601-006	W	83162	178048	09/21/2020 11:10	09/21/2020 14:38
	MW-10	Initial	20091601-007	W	83162	178048	09/21/2020 11:10	09/21/2020 14:42
	MW-11R	Initial	20091601-008	W	83162	178048	09/21/2020 11:10	09/21/2020 14:46
	MW-12R	Initial	20091601-009	W	83162	178048	09/21/2020 11:10	09/21/2020 16:15
	83162-1-BKS	BKS	83162-1-BKS	W	83162	178048	09/21/2020 11:47	09/21/2020 14:02
	83162-1-BLK	BLK	83162-1-BLK	W	83162	178048	09/21/2020 11:47	09/21/2020 13:58
	83162-1-BSD	BSD	83162-1-BSD	W	83162	178048	09/21/2020 11:10	09/21/2020 14:06
	MW-2 S	MS	20091601-002 S	W	83162	178048	09/21/2020 11:10	09/21/2020 14:18
	MW-2 SD	MSD	20091601-002 S	W	83162	178048	09/21/2020 11:10	09/21/2020 14:22
SM 5220D -2011	MW-1	Initial	20091601-001	W	177914	177914	09/17/2020 14:25	09/17/2020 14:25
	MW-2	Initial	20091601-002	W	177914	177914	09/17/2020 14:25	09/17/2020 14:25
	MW-3	Initial	20091601-003	W	177914	177914	09/17/2020 14:25	09/17/2020 14:25
	MW-7	Initial	20091601-004	W	177914	177914	09/17/2020 14:25	09/17/2020 14:25
	MW-8	Initial	20091601-005	W	177914	177914	09/17/2020 14:25	09/17/2020 14:25
	MW-9	Initial	20091601-006	W	177914	177914	09/17/2020 14:25	09/17/2020 14:25
	MW-10	Initial	20091601-007	W	177914	177914	09/17/2020 14:25	09/17/2020 14:25
	MW-11R	Initial	20091601-008	W	177914	177914	09/17/2020 14:25	09/17/2020 14:25
	MW-12R	Initial	20091601-009	W	177914	177914	09/17/2020 14:25	09/17/2020 14:25
	177914-1-BKS	BKS	177914-1-BKS	W	177914	177914	09/17/2020 14:25	09/17/2020 14:25
	177914-1-BLK	BLK	177914-1-BLK	W	177914	177914	09/17/2020 14:25	09/17/2020 14:25
	MW-1 S	MS	20091601-001 S	W	177914	177914	09/17/2020 14:25	09/17/2020 14:25
	MW-1 SD	MSD	20091601-001 S	W	177914	177914	09/17/2020 14:25	09/17/2020 14:25
SW-846 6020 A	MW-1	Initial	20091601-001	W	83124	177965	09/17/2020 12:10	09/17/2020 17:37
	MW-2	Initial	20091601-002	W	83124	177965	09/17/2020 12:10	09/17/2020 18:24
	MW-3	Initial	20091601-003	W	83124	177965	09/17/2020 12:10	09/17/2020 18:29
	MW-7	Initial	20091601-004	W	83124	177965	09/17/2020 12:10	09/17/2020 18:34

Project Name: Cross Trails
PSS Project No.: 20091601

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
SW-846 6020 A	MW-8	Initial	20091601-005	W	83124	177965	09/17/2020 12:10	09/17/2020 18:39
	MW-9	Initial	20091601-006	W	83124	177965	09/17/2020 12:10	09/17/2020 18:44
	MW-10	Initial	20091601-007	W	83124	177965	09/17/2020 12:10	09/17/2020 18:49
	MW-11R	Initial	20091601-008	W	83124	177965	09/17/2020 12:10	09/17/2020 19:15
	MW-12R	Initial	20091601-009	W	83124	177965	09/17/2020 12:10	09/17/2020 19:20
	83124-1-BKS	BKS	83124-1-BKS	W	83124	177965	09/17/2020 12:10	09/17/2020 17:32
	83124-1-BLK	BLK	83124-1-BLK	W	83124	177965	09/17/2020 12:10	09/17/2020 17:27
	MW-1 S	MS	20091601-001 S	W	83124	177965	09/17/2020 12:10	09/17/2020 18:03
	MW-1 S	Reanalysis	20091601-001 S	W	83124	177965	09/17/2020 12:10	09/17/2020 18:03
	MW-1 SD	MSD	20091601-001 S	W	83124	177965	09/17/2020 12:10	09/17/2020 18:08
	MW-1 SD	Reanalysis	20091601-001 S	W	83124	177965	09/17/2020 12:10	09/17/2020 18:08
	83124-1-BKS	Reanalysis	83124-1-BKS	W	83124	178013	09/17/2020 12:10	09/18/2020 22:32
	83124-1-BLK	Reanalysis	83124-1-BLK	W	83124	178013	09/17/2020 12:10	09/18/2020 22:27
	MW-1	Reanalysis	20091601-001	W	83124	178013	09/17/2020 12:10	09/18/2020 22:58
	MW-2	Reanalysis	20091601-002	W	83124	178013	09/17/2020 12:10	09/18/2020 23:03
	MW-3	Reanalysis	20091601-003	W	83124	178013	09/17/2020 12:10	09/18/2020 23:08
	MW-7	Reanalysis	20091601-004	W	83124	178013	09/17/2020 12:10	09/18/2020 23:13
	MW-8	Reanalysis	20091601-005	W	83124	178013	09/17/2020 12:10	09/18/2020 23:19
	MW-9	Reanalysis	20091601-006	W	83124	178013	09/17/2020 12:10	09/18/2020 23:24
	MW-10	Reanalysis	20091601-007	W	83124	178013	09/17/2020 12:10	09/18/2020 23:29
	MW-11R	Reanalysis	20091601-008	W	83124	178013	09/17/2020 12:10	09/18/2020 23:34
	MW-12R	Reanalysis	20091601-009	W	83124	178013	09/17/2020 12:10	09/18/2020 23:39
	MW-1	Reanalysis	20091601-001	W	83124	178056	09/17/2020 12:10	09/21/2020 19:13
	MW-3	Reanalysis	20091601-003	W	83124	178056	09/17/2020 12:10	09/21/2020 19:23
	MW-8	Reanalysis	20091601-005	W	83124	178056	09/17/2020 12:10	09/21/2020 19:34
	MW-9	Reanalysis	20091601-006	W	83124	178056	09/17/2020 12:10	09/21/2020 19:39
	MW-10	Reanalysis	20091601-007	W	83124	178056	09/17/2020 12:10	09/21/2020 19:44
	MW-11R	Reanalysis	20091601-008	W	83124	178056	09/17/2020 12:10	09/21/2020 19:49
	MW-12R	Reanalysis	20091601-009	W	83124	178056	09/17/2020 12:10	09/21/2020 19:55
	83124-1-BKS	Reanalysis	83124-1-BKS	W	83124	178110	09/17/2020 12:10	09/22/2020 20:35
	83124-1-BLK	Reanalysis	83124-1-BLK	W	83124	178110	09/17/2020 12:10	09/22/2020 20:30
	MW-1	Reanalysis	20091601-001	W	83124	178110	09/17/2020 12:10	09/22/2020 20:40
	MW-2	Reanalysis	20091601-002	W	83124	178110	09/17/2020 12:10	09/22/2020 20:45
	MW-3	Reanalysis	20091601-003	W	83124	178110	09/17/2020 12:10	09/22/2020 20:50
	MW-7	Reanalysis	20091601-004	W	83124	178110	09/17/2020 12:10	09/22/2020 20:55
	MW-8	Reanalysis	20091601-005	W	83124	178110	09/17/2020 12:10	09/22/2020 21:37
	MW-9	Reanalysis	20091601-006	W	83124	178110	09/17/2020 12:10	09/22/2020 21:42
	MW-10	Reanalysis	20091601-007	W	83124	178110	09/17/2020 12:10	09/22/2020 21:47
	MW-11R	Reanalysis	20091601-008	W	83124	178110	09/17/2020 12:10	09/22/2020 21:52
	MW-12R	Reanalysis	20091601-009	W	83124	178110	09/17/2020 12:10	09/22/2020 21:57
SW-846 8260 B	MW-1	Initial	20091601-001	W	83166	177999	09/18/2020 08:20	09/21/2020 16:52
	MW-2	Initial	20091601-002	W	83166	177999	09/18/2020 08:20	09/21/2020 17:14
	MW-3	Initial	20091601-003	W	83166	177999	09/18/2020 08:20	09/21/2020 17:37
	MW-7	Initial	20091601-004	W	83166	177999	09/18/2020 08:20	09/21/2020 17:59
	MW-8	Initial	20091601-005	W	83166	177999	09/18/2020 08:20	09/21/2020 18:22

Project Name: Cross Trails
 PSS Project No.: 20091601

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
SW-846 8260 B	MW-9	Initial	20091601-006	W	83166	177999	09/18/2020 08:20	09/21/2020 18:44
	MW-10	Initial	20091601-007	W	83166	177999	09/18/2020 08:20	09/21/2020 19:07
	MW-11R	Initial	20091601-008	W	83166	177999	09/18/2020 08:20	09/21/2020 19:29
	MW-12R	Initial	20091601-009	W	83166	177999	09/18/2020 08:20	09/21/2020 19:52
	83166-1-BKS	BKS	83166-1-BKS	W	83166	177999	09/18/2020 08:20	09/21/2020 10:28
	83166-1-BLK	BLK	83166-1-BLK	W	83166	177999	09/18/2020 08:20	09/21/2020 11:58
	MW-12 S	MS	20091421-011 S	W	83166	177999	09/18/2020 08:20	09/21/2020 13:28
	MW-12 SD	MSD	20091421-011 S	W	83166	177999	09/18/2020 08:20	09/21/2020 13:51
	TB-1	Initial	20091601-010	W	83190	178073	09/22/2020 08:43	09/22/2020 16:31
	83190-1-BKS	BKS	83190-1-BKS	W	83190	178073	09/22/2020 08:43	09/22/2020 09:45
	83190-1-BLK	BLK	83190-1-BLK	W	83190	178073	09/22/2020 08:43	09/22/2020 11:15
	WS-09182020 S	MS	20091816-001 S	W	83190	178073	09/22/2020 08:43	09/22/2020 15:01
	WS-09182020 SD	MSD	20091816-001 S	W	83190	178073	09/22/2020 08:43	09/22/2020 15:23

Project Name Cross Trails

PSS Project No.: 20091601

Analytical Method: EPA 180.1

Seq Number: 177878

Matrix: Water

MB Sample Id: 177878-1-BLK

Parameter	MB Result	LOD	RL	Units	Flag
Turbidity	ND	0.1800	0.5000	NTU	

Analytical Method: EPA 180.1

Seq Number: 177878

Matrix: Ground Water

Parent Sample Id: 20091601-001

MD Sample Id: 20091601-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Flag
Turbidity	85.00	85.00	0	20	NTU	

Analytical Method: EPA 310.2

Seq Number: 177860

Matrix: Water

Prep Method: Alkalinity_Prep

MB Sample Id: 83104-1-BLK

LCS Sample Id: 83104-1-BKS

Date Prep: 09/16/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Alkalinity, Total (CaCO3)	<10.00	60.00	60.14	100	55.54	93	90-110	7	20	mg/L	

Analytical Method: EPA 310.2

Seq Number: 177860

Matrix: Ground Water

Prep Method: Alkalinity_Prep

Parent Sample Id: 20091601-005

MD Sample Id: 20091601-005 D

Date Prep: 09/16/20

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Flag
Alkalinity, Total (CaCO3)	66.01	64.38	3	20	mg/L	

Analytical Method: SM 2320B -11

Seq Number: 178007

Matrix: Water

MB Sample Id: 178007-1-BLK

LCS Sample Id: 178007-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Alkalinity, Total (as CaCO3)	<1.000	6.000	6.200	103	80-120	mg/L	

Analytical Method: SM 2320B -11

Seq Number: 178064

Matrix: Water

MB Sample Id: 178064-1-BLK

LCS Sample Id: 178064-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Alkalinity, Total (CaCO3)	<20.0	60.0	60.0	100	80-120	mg/L	

P HASE

S EPARATION

S CIENCE

QC Summary

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 Baltimore, MD 21228
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Project Name Cross Trails

PSS Project No.: 20091601

Analytical Method: SM 2320B -11

Seq Number: 178007 Matrix: Ground Water
 Parent Sample Id: 20091601-002 MD Sample Id: 20091601-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Flag
Alkalinity, Total (as CaCO3)	4.800	5.000	4	30	mg/L	

Analytical Method: SM 2320B -11

Seq Number: 178064 Matrix: Ground Water
 Parent Sample Id: 20091601-001 MD Sample Id: 20091601-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Flag
Alkalinity, Total (CaCO3)	196	199	2	30	mg/L	

Analytical Method: SM 2540C -2011

Seq Number: 177987 Matrix: Water
 MB Sample Id: 83150-1-BLK LCS Sample Id: 83150-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Total Dissolved Solids	<10.00	500	502	100	80-120	mg/L	

Analytical Method: SM 2540C -2011

Seq Number: 177987 Matrix: Ground Water
 Parent Sample Id: 20091601-001 MD Sample Id: 20091601-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Flag
Total Dissolved Solids	289	296	2	10	mg/L	

Analytical Method: SM 4500-NH3-F -2011

Seq Number: 178048 Matrix: Water
 MB Sample Id: 83162-1-BLK LCS Sample Id: 83162-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Nitrogen, Ammonia (as N)	<0.1000	2.500	2.233	89	2.323	93	85-115	4	20	mg/L	

Analytical Method: SM 4500-NH3-F -2011

Seq Number: 178048 Matrix: Ground Water
 Parent Sample Id: 20091601-002 MS Sample Id: 20091601-002 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Nitrogen, Ammonia (as N)	<0.1000	2.500	2.188	88	2.239	90	80-120	2	20	mg/L	

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Project Name Cross Trails

PSS Project No.: 20091601

Analytical Method: SM 5220D -2011

Seq Number: 177914 Matrix: Water
 MB Sample Id: 177914-1-BLK LCS Sample Id: 177914-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Chemical Oxygen Demand	<5.000	100.5	111	110	85-115	mg/L	

Analytical Method: SM 5220D -2011

Seq Number: 177914 Matrix: Ground Water
 Parent Sample Id: 20091601-001 MS Sample Id: 20091601-001 S MSD Sample Id: 20091601-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Chemical Oxygen Demand	17.00	50.25	69.00	103	67.00	100	80-120	3	20	mg/L	

Analytical Method: EPA 300.0

Seq Number: 177910 Matrix: Water
 MB Sample Id: 83102-1-BLK LCS Sample Id: 83102-1-BKS

Prep Method: E300.0P
 Date Prep: 09/16/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Chloride	<0.5000	50.00	51.34	103	90-110	mg/L	
Nitrate	<0.04400	5.000	4.867	97	90-110	mg/L	
Sulfate	<1.600	50.00	49.11	98	90-110	mg/L	

Analytical Method: EPA 300.0

Seq Number: 177910 Matrix: Ground Water
 Parent Sample Id: 20091601-002 MS Sample Id: 20091601-002 S

Prep Method: E300.0P
 Date Prep: 09/16/20

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Flag
Chloride	2.703	50.00	53.91	102	86-117	mg/L	
Nitrate	<0.04400	5.000	4.938	99	88-113	mg/L	
Sulfate	17.69	50.00	66.51	98	80-118	mg/L	

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Project Name Cross Trails

PSS Project No.: 20091601

Analytical Method: SW-846 6020 A

Seq Number: 177965

Matrix: Water

Prep Method: SW3010A

MB Sample Id: 83124-1-BLK

LCS Sample Id: 83124-1-BKS

Date Prep: 09/17/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Antimony	<0.002000	0.04000	0.03948	99	80-120	mg/L	
Arsenic	<0.002000	0.04000	0.03829	96	80-120	mg/L	
Barium	<0.01000	0.04000	0.03824	96	80-120	mg/L	
Beryllium	<0.002000	0.04000	0.03829	96	80-120	mg/L	
Cadmium	<0.004000	0.04000	0.04012	100	80-120	mg/L	
Calcium	<0.1000	0.4000	0.4683	117	80-120	mg/L	
Chromium	<0.01000	0.04000	0.03713	93	80-120	mg/L	
Iron	<0.1000	0.4000	0.4286	107	80-120	mg/L	
Lead	<0.002000	0.04000	0.03791	95	80-120	mg/L	
Magnesium	<0.1000	0.4000	0.3643	91	80-120	mg/L	
Mercury	<0.0002	0.001000	0.000974	97	80-120	mg/L	
Potassium	<0.3900	0.4000	0.3668	92	80-120	mg/L	
Selenium	<0.03500	0.04000	0.04218	105	80-120	mg/L	
Silver	<0.01000	0.04000	0.03995	100	80-120	mg/L	
Sodium	<0.2000	0.4000	0.3875	97	80-120	mg/L	
Vanadium	<0.01000	0.04000	0.03668	92	80-120	mg/L	
Zinc	<0.01000	0.2000	0.1882	94	80-120	mg/L	

Analytical Method: SW-846 6020 A

Seq Number: 178013

Matrix: Water

Prep Method: SW3010A

MB Sample Id: 83124-1-BLK

LCS Sample Id: 83124-1-BKS

Date Prep: 09/17/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Cobalt	<0.01000	0.04000	0.04222	106	80-120	mg/L	
Manganese	<0.01000	0.04000	0.04363	109	80-120	mg/L	
Nickel	<0.01100	0.04000	0.04069	102	80-120	mg/L	

Analytical Method: SW-846 6020 A

Seq Number: 178110

Matrix: Water

Prep Method: SW3010A

MB Sample Id: 83124-1-BLK

LCS Sample Id: 83124-1-BKS

Date Prep: 09/17/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Copper	<0.01000	0.04000	0.04201	105	80-120	mg/L	
Thallium	<0.002000	0.04000	0.03059	76	80-120	mg/L	L

Analytical Method: SW-846 6020 A

Seq Number: 177965

Matrix: Water

Prep Method: SW3010A

MB Sample Id: 83124-1-BLK

Date Prep: 09/17/20

Parameter	MB Result	LOD	RL	Units	Flag
Hardness (Ca & Mg)	ND	0.5000	0.7000	mg/L	

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QC Summary

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Baltimore, MD 21228

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Project Name Cross Trails

PSS Project No.: 20091601

Analytical Method: SW-846 6020 A

Seq Number: 177965

Matrix: Ground Water

Prep Method: SW3010A

Parent Sample Id: 20091601-001

MS Sample Id: 20091601-001 S

Date Prep: 09/17/20

MSD Sample Id: 20091601-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Antimony	<0.002000	0.04000	0.03948	99	0.03900	98	75-125	1	25	mg/L	
Arsenic	0.005258	0.04000	0.04394	97	0.04310	95	75-125	2	25	mg/L	
Barium	0.05882	0.04000	0.09668	95	0.09842	99	75-125	4	25	mg/L	
Beryllium	<0.002000	0.04000	0.03851	96	0.03840	96	75-125	0	25	mg/L	
Cadmium	<0.004000	0.04000	0.03945	99	0.03844	96	75-125	3	25	mg/L	
Calcium	75.80	0.4000	74.98	0	77.51	428	75-125	200	25	mg/L	
Chromium	<0.01000	0.04000	0.03814	95	0.03756	94	75-125	1	25	mg/L	
Cobalt	<0.01000	0.04000	0.04582	115	0.04497	112	75-125	3	25	mg/L	
Copper	<0.01000	0.04000	0.03761	94	0.03720	93	75-125	1	25	mg/L	
Iron	16.93	0.4000	16.90	0	17.40	118	75-125	200	25	mg/L	XF
Lead	<0.002000	0.04000	0.03746	94	0.03705	93	75-125	1	25	mg/L	
Magnesium	13.10	0.4000	13.74	160	14.05	238	75-125	39	25	mg/L	XF
Manganese	0.9365	0.04000	0.9785	105	0.9914	137	75-125	26	25	mg/L	XF
Mercury	<0.0002	0.001000	0.001040	104	0.000991	99	75-125	5	25	mg/L	
Nickel	<0.01100	0.04000	0.03831	96	0.03754	94	75-125	2	25	mg/L	
Potassium	3.276	0.4000	3.733	114	3.840	141	75-125	21	25	mg/L	X
Selenium	<0.03500	0.04000	0.03997	100	0.03957	99	75-125	1	25	mg/L	
Silver	<0.01000	0.04000	0.03874	97	0.03867	97	75-125	0	25	mg/L	
Sodium	8.314	0.4000	8.860	137	9.024	178	75-125	26	25	mg/L	XF
Thallium	<0.002000	0.04000	0.03435	86	0.03367	84	75-125	2	25	mg/L	
Vanadium	<0.01000	0.04000	0.03821	96	0.03750	94	75-125	2	25	mg/L	
Zinc	0.01224	0.2000	0.1975	93	0.1950	91	75-125	2	25	mg/L	

Analytical Method: SW-846 8260 B

Seq Number: 177999

Matrix: Water

Prep Method: SW5030B

MB Sample Id: 83166-1-BLK

LCS Sample Id: 83166-1-BKS

Date Prep: 09/18/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
1,1-Dichloroethene	<0.5000	50.00	52.50	105	71-124	ug/L	
Benzene	<0.5000	50.00	51.15	102	82-115	ug/L	
Trichloroethene	<0.5000	50.00	52.60	105	82-117	ug/L	
Toluene	<0.5000	50.00	51.77	104	85-112	ug/L	
Chlorobenzene	<0.5000	50.00	50.70	101	80-116	ug/L	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	
4-Bromofluorobenzene	97		93		88-112	%	
Dibromofluoromethane	99		99		93-111	%	
Toluene-D8	101		102		94-107	%	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

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Project Name Cross Trails

PSS Project No.: 20091601

Analytical Method: SW-846 8260 B

Seq Number: 178073

Matrix: Water

Prep Method: SW5030B

MB Sample Id: 83190-1-BLK

LCS Sample Id: 83190-1-BKS

Date Prep: 09/22/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
1,1-Dichloroethene	<0.5000	50.00	52.47	105	71-124	ug/L	
Benzene	<0.5000	50.00	51.04	102	82-115	ug/L	
Trichloroethene	<0.5000	50.00	51.46	103	82-117	ug/L	
Toluene	<0.5000	50.00	51.61	103	85-112	ug/L	
Chlorobenzene	<0.5000	50.00	51.10	102	80-116	ug/L	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	
4-Bromofluorobenzene	94		94		88-112	%	
Dibromofluoromethane	103		100		93-111	%	
Toluene-D8	104		100		94-107	%	

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com

email: info@phaseonline.com

1 CLIENT: Arc Environmental OFFICE LOC. Baltimore PROJECT MGR: Kyle Begey PHONE NO.: 410-659-9971 EMAIL: kbegey@arcenvironmental.com FAX NO.:					PSS Work Order #: 20091601					PAGE 1 OF 1										
					Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W= Wipe															
2 LAB NO.	PROJECT NAME: Cross Trails PROJECT NO.: 093-7 SITE LOCATION: Brandywine, MD P.O. NO.:				No. C O N T A I N E R S SAMPLE TYPE C = COMP G = GRAB	TCL VOCs		Total Metals		NH3 + COD		Alkalinity		TDS		Inorganic Anions		Turbidity		Preservative Used Analysis/ Method Required REMARKS
	1	MW-1	09/15/20	919		GW	9	G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	2	MW-2	09/15/20	1220		GW	9	G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	3	MW-3	09/15/20	1418		GW	9	G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	4	MW-7	09/15/20	1755		GW	9	G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	5	MW-8	09/15/20	1641		GW	9	G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	6	MW-9	09/15/20	1859		GW	9	G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	7	MW-10	09/15/20	1951		GW	9	G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	8	MW-11R	09/15/20	1049		GW	9	G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	9	MW-12R	09/15/20	1004		GW	9	G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
10	TB-1	09/15/20			2		✓													
5 Relinquished By: (1) 			Date 09/16/20	Time 10:44	Received By:	4 Requested Turnaround Time <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other					# of Coolers: 2 Custody Seal: ABJ									
Relinquished By: (2) 			Date 09/16/20	Time 11:00	Received By:						Ice Present: PRES Temp: 3.1 - 3.5°C Shipping Carrier: TR									
Relinquished By: (3)			Date	Time	Received By:	Special Instructions:														
Relinquished By: (4)			Date	Time	Received By:															

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.

Sample Receipt Checklist

6630 Baltimore National Pike
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 800-932-9047
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Project Name: Cross Trails

PSS Project No.: 20091601

Client Name	Brandywine Enterprises, Inc.	Received By	Thomas Wingate
Disposal Date	10/21/2020	Date Received	09/16/2020 11:00:00 AM
		Delivered By	Trans Time Express
		Tracking No	Not Applicable
		Logged In By	Thomas Wingate

Shipping Container(s)

No. of Coolers 2

Custody Seal(s) Intact?	N/A	Ice	Present
Seal(s) Signed / Dated?	N/A	Temp (deg C)	3.8

Documentation

COC agrees with sample labels?	Yes	Sampler Name	<u>Glen Banks</u>
Chain of Custody	Yes	MD DW Cert. No.	<u>N/A</u>

Sample Container

Appropriate for Specified Analysis?	Yes	Custody Seal(s) Intact?	Not Applicable
Intact?	Yes	Seal(s) Signed / Dated	Not Applicable
Labeled and Labels Legible?	Yes		

Holding Time

All Samples Received Within Holding Time(s)?	Yes	Total No. of Samples Received	10
		Total No. of Containers Received	83

Preservation

Total Metals	(pH<2)	Yes
Dissolved Metals, filtered within 15 minutes of collection	(pH<2)	N/A
Orthophosphorus, filtered within 15 minutes of collection		N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, DOC (field filtered), COD, Phenols	(pH<2)	Yes
TOX, TKN, NH3, Total Phos	(pH<2)	Yes
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A
524 VOC (Rcvd with trip blanks)	(pH<2)	N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Preservative not indicated on COC for VOC, metals, NH3, or COD. Received containers preserved with HCl, HNO3, and H2SO4.

Samples Inspected/Checklist Completed By:

Thomas Wingate

Date: 09/16/2020

PM Review and Approval:

Roger Rhudy

Date: 09/16/2020

Version 1.000

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Certificate of Analysis

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Baltimore, MD 21228

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Project Name: Cross Trails
PSS Project No.: 20091705

October 27, 2020

Logan Cosgrove
Brandywine Enterprises, Inc.
5800 Sheriff Rd
Fairmount Heights, MD 20743

Reference: PSS Project No: **20091705**
Project Name: Cross Trails
Project Location: Brandywine, MD
Project ID.: 093-7



Dear Logan Cosgrove:

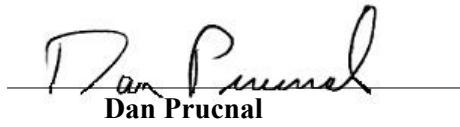
This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **20091705**. This report has been revised to update sample IDs for samples 010 and 011 and remove descriptor note about which trip blanks were received with groundwater samples versus surface water samples. The sample results are not impacted by this revision. This report cancels and supersedes report version 1.000 dated October 1, 2020.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 22, 2020, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.



Dan Prucnal

Laboratory Manager



Explanation of Qualifiers

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Baltimore, MD 21228
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www.phaseonline.com

Project Name: Cross Trails

PSS Project No.: 20091705

Project ID: 093-7

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/17/2020 at 10:30 am

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
20091705-001	MW-4A	GROUND WATER	09/16/20 11:46
20091705-002	MW-5	GROUND WATER	09/16/20 16:30
20091705-003	MW-6	GROUND WATER	09/16/20 14:55
20091705-004	MW-13	GROUND WATER	09/16/20 09:34
20091705-005	Stream-3	SURFACE WATER	09/16/20 13:30
20091705-006	Stream-4	SURFACE WATER	09/16/20 13:54
20091705-007	Stream-7	SURFACE WATER	09/16/20 12:06
20091705-008	Stream-8	SURFACE WATER	09/16/20 17:10
20091705-009	RB	SURFACE WATER	09/16/20 17:50
20091705-010	Trip Blank	WATER	09/17/20 10:30
20091705-011	Trip Blank	WATER	09/17/20 10:30

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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Explanation of Qualifiers

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800-932-9047
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Project Name: Cross Trails

PSS Project No.: 20091705

Certifications:

NELAP Certifications: PA 68-03330, VA 460156

State Certifications: MD 179, WV 303

Regulated Soil Permit: P330-12-00268

NSWC USCG Accepted Laboratory

LDBE MWAA LD1997-0041-2015

Project Name: Cross Trails
PSS Project No.: 20091705

Sample ID: MW-4A
Matrix: GROUND WATER

Date/Time Sampled: 09/16/2020 11:46 PSS Sample ID: 20091705-001

Date/Time Received: 09/17/2020 10:30

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	3.5	NTU	0.50		1	0.18	09/17/20	09/17/20 16:10	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	2.8	mg/L	5.0	J	1	0.5	09/17/20	09/17/20 13:14	1053
Nitrate	ND	mg/L	0.10		1	0.044	09/17/20	09/17/20 13:14	1053
Sulfate	5.2	mg/L	5.0		1	1.6	09/17/20	09/17/20 13:14	1053

Alkalinity (titrimetric)

Analytical Method: SM 2320B -11

The alkalinity to pH 4.7 = 140 mg CaCO₃/L.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO3)	140	mg/L	20		1	20	09/22/20	09/22/20 15:40	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	190	mg/L	10		1	10	09/21/20	09/22/20 09:40	1061

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: MW-4A **Date/Time Sampled: 09/16/2020 11:46** **PSS Sample ID: 20091705-001**

Matrix: GROUND WATER

Date/Time Received: 09/17/2020 10:30

Nitrogen, Ammonia

Analytical Method: SM 4500-NH3-F -2011

Preparation Method: SM4500-NH3B

Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	ND	mg/L	0.20		1	0.1	09/21/20	09/21/20 15:02	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

Qualifier(s): See Batch 178050 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	ND	mg/L	5.0		1	5	09/22/20	09/22/20 14:13	1053

Total Metals (Ground Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 18:33	1051
Arsenic	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 18:33	1051
Barium	0.014	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:33	1051
Beryllium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 18:33	1051
Cadmium	ND	mg/L	0.0040		1	0.004	09/23/20	09/23/20 18:33	1051
Calcium	54	mg/L	1.0		10	1	09/23/20	09/28/20 16:40	1051
Chromium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:33	1051
Cobalt	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:33	1051
Copper	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:33	1051
Iron	0.86	mg/L	0.10		1	0.1	09/23/20	09/23/20 18:33	1051
Lead	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 18:33	1051
Magnesium	3.1	mg/L	1.0		10	1	09/23/20	09/28/20 16:40	1051
Manganese	0.062	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:33	1051
Mercury	ND	mg/L	0.00020		1	0.0002	09/23/20	09/23/20 18:33	1051
Nickel	ND	mg/L	0.011		1	0.011	09/23/20	09/23/20 18:33	1051
Potassium	2.2	mg/L	0.39		1	0.39	09/23/20	09/23/20 18:33	1051
Selenium	ND	mg/L	0.035		1	0.035	09/23/20	09/23/20 18:33	1051
Silver	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:33	1051

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: MW-4A
Matrix: GROUND WATER

Date/Time Sampled: 09/16/2020 11:46 PSS Sample ID: 20091705-001

Date/Time Received: 09/17/2020 10:30

Total Metals (Ground Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	3.7	mg/L	2.0		10	2	09/23/20	09/28/20 16:40	1051
Thallium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 18:33	1051
Vanadium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:33	1051
Zinc	ND	mg/L	0.020		1	0.01	09/23/20	09/23/20 18:33	1051
Hardness (Ca & Mg)	150	mg/L	6.62		10	6.6	09/23/20	09/28/20 16:40	1051

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	0.61	ug/L	1.0	J	1	0.5	09/22/20	09/22/20 16:54	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
Acetone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 16:54	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/22/20	09/22/20 16:54	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
2-Butanone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 16:54	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
Benzene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/22/20	09/22/20 16:54	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/22/20	09/22/20 16:54	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 16:54	1011

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: MW-4A
Matrix: GROUND WATER

Date/Time Sampled: 09/16/2020 11:46 PSS Sample ID: 20091705-001

Date/Time Received: 09/17/2020 10:30

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 16:54	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 16:54	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 16:54	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 16:54	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/22/20	09/22/20 16:54	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 16:54	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/22/20	09/22/20 16:54	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/22/20	09/22/20 16:54	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		96	%		88-112	1		09/22/20	09/22/20 16:54
Dibromofluoromethane		101	%		93-111	1		09/22/20	09/22/20 16:54
Toluene-D8		101	%		94-107	1		09/22/20	09/22/20 16:54

Project Name: Cross Trails
PSS Project No.: 20091705

Sample ID: MW-5 Date/Time Sampled: 09/16/2020 16:30 PSS Sample ID: 20091705-002

Matrix: GROUND WATER

Date/Time Received: 09/17/2020 10:30

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	0.55	NTU	0.50		1	0.18	09/17/20	09/17/20 16:10	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	1.8	mg/L	5.0	J	1	0.5	09/17/20	09/17/20 14:23	1053
Nitrate	ND	mg/L	0.10		1	0.044	09/17/20	09/17/20 14:23	1053
Sulfate	9.1	mg/L	5.0		1	1.6	09/17/20	09/17/20 14:23	1053

Alkalinity (titrimetric)

Analytical Method: SM 2320B -11

The alkalinity to pH 4.7 = 140 mg CaCO₃/L.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO3)	140	mg/L	20		1	20	09/22/20	09/22/20 15:40	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	180	mg/L	10		1	10	09/21/20	09/22/20 09:40	1061

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: MW-5 **Date/Time Sampled: 09/16/2020 16:30** **PSS Sample ID: 20091705-002**

Matrix: GROUND WATER

Date/Time Received: 09/17/2020 10:30

Nitrogen, Ammonia

Analytical Method: SM 4500-NH3-F -2011

Preparation Method: SM4500-NH3B

Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	ND	mg/L	0.20		1	0.1	09/21/20	09/21/20 15:06	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

Qualifier(s): See Batch 178050 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	ND	mg/L	5.0		1	5	09/22/20	09/22/20 14:13	1053

Total Metals (Ground Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 18:57	1051
Arsenic	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 18:57	1051
Barium	0.038	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:57	1051
Beryllium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 18:57	1051
Cadmium	ND	mg/L	0.0040		1	0.004	09/23/20	09/23/20 18:57	1051
Calcium	56	mg/L	1.0		10	1	09/23/20	09/28/20 16:45	1051
Chromium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:57	1051
Cobalt	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:57	1051
Copper	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:57	1051
Iron	ND	mg/L	0.10		1	0.1	09/23/20	09/23/20 18:57	1051
Lead	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 18:57	1051
Magnesium	3.5	mg/L	1.0		10	1	09/23/20	09/28/20 16:45	1051
Manganese	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:57	1051
Mercury	ND	mg/L	0.00020		1	0.0002	09/23/20	09/23/20 18:57	1051
Nickel	ND	mg/L	0.011		1	0.011	09/23/20	09/23/20 18:57	1051
Potassium	3.6	mg/L	0.39		1	0.39	09/23/20	09/23/20 18:57	1051
Selenium	ND	mg/L	0.035		1	0.035	09/23/20	09/23/20 18:57	1051
Silver	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:57	1051

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: MW-5
Matrix: GROUND WATER

Date/Time Sampled: 09/16/2020 16:30 PSS Sample ID: 20091705-002

Date/Time Received: 09/17/2020 10:30

Total Metals (Ground Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	3.4	mg/L	2.0		10	2	09/23/20	09/28/20 16:45	1051
Thallium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 18:57	1051
Vanadium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 18:57	1051
Zinc	ND	mg/L	0.020		1	0.01	09/23/20	09/23/20 18:57	1051
Hardness (Ca & Mg)	150	mg/L	6.62		10	6.6	09/23/20	09/28/20 16:45	1051

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Acetone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 17:16	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/22/20	09/22/20 17:16	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
2-Butanone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 17:16	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Benzene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/22/20	09/22/20 17:16	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/22/20	09/22/20 17:16	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:16	1011

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: MW-5	Date/Time Sampled: 09/16/2020 16:30 PSS Sample ID: 20091705-002							
Matrix: GROUND WATER	Date/Time Received: 09/17/2020 10:30							

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 17:16	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 17:16	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 17:16	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 17:16	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/22/20	09/22/20 17:16	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:16	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/22/20	09/22/20 17:16	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/22/20	09/22/20 17:16	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		98	%		88-112	1		09/22/20	09/22/20 17:16
Dibromofluoromethane		103	%		93-111	1		09/22/20	09/22/20 17:16
Toluene-D8		100	%		94-107	1		09/22/20	09/22/20 17:16

Project Name: Cross Trails
PSS Project No.: 20091705

Sample ID: MW-6 Date/Time Sampled: 09/16/2020 14:55 PSS Sample ID: 20091705-003

Matrix: GROUND WATER

Date/Time Received: 09/17/2020 10:30

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	140	NTU	5.0		10	1.8	09/17/20	09/17/20 16:10	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	8.6	mg/L	5.0		1	0.5	09/17/20	09/17/20 14:46	1053
Nitrate	ND	mg/L	0.10		1	0.044	09/17/20	09/17/20 14:46	1053
Sulfate	58	mg/L	5.0		1	1.6	09/17/20	09/17/20 14:46	1053

Alkalinity (titrimetric)

Analytical Method: SM 2320B -11

The alkalinity to pH 4.6 = 210 mg CaCO₃/L.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO3)	210	mg/L	20		1	20	09/22/20	09/22/20 15:40	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	380	mg/L	10		1	10	09/21/20	09/22/20 09:40	1061

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: MW-6	Date/Time Sampled: 09/16/2020 14:55	PSS Sample ID: 20091705-003
Matrix: GROUND WATER	Date/Time Received: 09/17/2020 10:30	

Nitrogen, Ammonia	Analytical Method: SM 4500-NH3-F -2011	Preparation Method: SM4500-NH3B
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Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	0.53	mg/L	0.20		1	0.1	09/21/20	09/21/20 15:10	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

Qualifier(s): See Batch 178050 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	18	mg/L	5.0		1	5	09/22/20	09/22/20 14:13	1053

Total Metals (Ground Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:02	1051
Arsenic	0.0028	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:02	1051
Barium	0.050	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:02	1051
Beryllium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:02	1051
Cadmium	ND	mg/L	0.0040		1	0.004	09/23/20	09/23/20 19:02	1051
Calcium	90	mg/L	1.0		10	1	09/23/20	09/28/20 16:50	1051
Chromium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:02	1051
Cobalt	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:02	1051
Copper	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:02	1051
Iron	38	mg/L	1.0		10	1	09/23/20	09/28/20 16:50	1051
Lead	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:02	1051
Magnesium	12	mg/L	1.0		10	1	09/23/20	09/28/20 16:50	1051
Manganese	0.44	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:02	1051
Mercury	ND	mg/L	0.00020		1	0.0002	09/23/20	09/23/20 19:02	1051
Nickel	ND	mg/L	0.011		1	0.011	09/23/20	09/23/20 19:02	1051
Potassium	3.2	mg/L	0.39		1	0.39	09/23/20	09/23/20 19:02	1051
Selenium	ND	mg/L	0.035		1	0.035	09/23/20	09/23/20 19:02	1051
Silver	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:02	1051

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: MW-6
Matrix: GROUND WATER

Date/Time Sampled: 09/16/2020 14:55 PSS Sample ID: 20091705-003

Date/Time Received: 09/17/2020 10:30

Total Metals (Ground Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	9.9	mg/L	2.0		10	2	09/23/20	09/28/20 16:50	1051
Thallium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:02	1051
Vanadium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:02	1051
Zinc	ND	mg/L	0.020		1	0.01	09/23/20	09/23/20 19:02	1051
Hardness (Ca & Mg)	270	mg/L	6.62		10	6.6	09/23/20	09/28/20 16:50	1051

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Acetone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 17:39	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/22/20	09/22/20 17:39	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
2-Butanone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 17:39	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Benzene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/22/20	09/22/20 17:39	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/22/20	09/22/20 17:39	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 17:39	1011

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: MW-6	Date/Time Sampled: 09/16/2020 14:55	PSS Sample ID: 20091705-003
Matrix: GROUND WATER	Date/Time Received: 09/17/2020 10:30	

Volatiles - LF list	Analytical Method: SW-846 8260 B	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 17:39	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 17:39	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 17:39	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 17:39	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/22/20	09/22/20 17:39	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 17:39	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/22/20	09/22/20 17:39	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/22/20	09/22/20 17:39	1011	
Surrogate(s)		Recovery		Limits					
4-Bromofluorobenzene		96	%	88-112	1		09/22/20	09/22/20 17:39	1011
Dibromofluoromethane		102	%	93-111	1		09/22/20	09/22/20 17:39	1011
Toluene-D8		102	%	94-107	1		09/22/20	09/22/20 17:39	1011

Project Name: Cross Trails
PSS Project No.: 20091705

Sample ID: MW-13 **Date/Time Sampled:** 09/16/2020 09:34 **PSS Sample ID:** 20091705-004

Matrix: GROUND WATER

Date/Time Received: 09/17/2020 10:30

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	0.85	NTU	0.50		1	0.18	09/17/20	09/17/20 16:10	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	14	mg/L	5.0		1	0.5	09/17/20	09/17/20 15:09	1053
Nitrate	ND	mg/L	0.10		1	0.044	09/17/20	09/17/20 15:09	1053
Sulfate	440	mg/L	50		10	16	09/17/20	09/18/20 12:58	1053

Alkalinity (titrimetric)

Analytical Method: SM 2320B -11

The alkalinity to pH 4.4 = 330 mg CaCO₃/L.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO3)	330	mg/L	20		1	20	09/22/20	09/22/20 15:40	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	1.000	mg/L	10		1	10	09/21/20	09/22/20 09:40	1061

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: MW-13 **Date/Time Sampled: 09/16/2020 09:34** **PSS Sample ID: 20091705-004**

Matrix: GROUND WATER

Date/Time Received: 09/17/2020 10:30

Nitrogen, Ammonia

Analytical Method: SM 4500-NH3-F -2011

Preparation Method: SM4500-NH3B

Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	ND	mg/L	0.20		1	0.1	09/21/20	09/21/20 15:14	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

Qualifier(s): See Batch 178050 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	ND	mg/L	5.0		1	5	09/22/20	09/22/20 14:13	1053

Total Metals (Ground Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:07	1051
Arsenic	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:07	1051
Barium	0.038	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:07	1051
Beryllium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:07	1051
Cadmium	ND	mg/L	0.0040		1	0.004	09/23/20	09/23/20 19:07	1051
Calcium	320	mg/L	5.0		50	5	09/23/20	09/25/20 20:19	1051
Chromium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:07	1051
Cobalt	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:07	1051
Copper	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:07	1051
Iron	ND	mg/L	0.10		1	0.1	09/23/20	09/23/20 19:07	1051
Lead	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:07	1051
Magnesium	8.2	mg/L	1.0		10	1	09/23/20	09/28/20 16:55	1051
Manganese	0.13	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:07	1051
Mercury	ND	mg/L	0.00020		1	0.0002	09/23/20	09/23/20 19:07	1051
Nickel	ND	mg/L	0.011		1	0.011	09/23/20	09/23/20 19:07	1051
Potassium	2.2	mg/L	0.39		1	0.39	09/23/20	09/23/20 19:07	1051
Selenium	ND	mg/L	0.035		1	0.035	09/23/20	09/23/20 19:07	1051
Silver	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:07	1051

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: MW-13
Matrix: GROUND WATER

Date/Time Sampled: 09/16/2020 09:34 PSS Sample ID: 20091705-004

Date/Time Received: 09/17/2020 10:30

Total Metals (Ground Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	19	mg/L	2.0		10	2	09/23/20	09/28/20 16:55	1051
Thallium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:07	1051
Vanadium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:07	1051
Zinc	ND	mg/L	0.020		1	0.01	09/23/20	09/23/20 19:07	1051
Hardness (Ca & Mg)	830	mg/L	16.60		50	17	09/23/20	09/28/20 16:55	1051

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Acetone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 18:01	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/22/20	09/22/20 18:01	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
2-Butanone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 18:01	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Benzene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/22/20	09/22/20 18:01	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/22/20	09/22/20 18:01	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:01	1011

Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: MW-13	Date/Time Sampled: 09/16/2020 09:34	PSS Sample ID: 20091705-004
Matrix: GROUND WATER	Date/Time Received: 09/17/2020 10:30	

Volatiles - LF list	Analytical Method: SW-846 8260 B	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 18:01	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 18:01	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 18:01	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 18:01	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/22/20	09/22/20 18:01	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:01	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/22/20	09/22/20 18:01	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/22/20	09/22/20 18:01	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		97	%	88-112	1		09/22/20	09/22/20 18:01	1011
Dibromofluoromethane		104	%	93-111	1		09/22/20	09/22/20 18:01	1011
Toluene-D8		102	%	94-107	1		09/22/20	09/22/20 18:01	1011

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Stream-3
Matrix: SURFACE WATER

Date/Time Sampled: 09/16/2020 13:30 **PSS Sample ID:** 20091705-005

Date/Time Received: 09/17/2020 10:30

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	9.5	NTU	0.50		1	0.18	09/17/20	09/17/20 16:10	1064

Inorganic Anions (NO3, Cl, SO4)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	15	mg/L	5.0		1	0.5	09/17/20	09/17/20 15:32	1053
Nitrate	0.22	mg/L	0.10		1	0.044	09/17/20	09/17/20 15:32	1053
Sulfate	16	mg/L	5.0		1	1.6	09/17/20	09/17/20 15:32	1053

Alkalinity

Analytical Method: EPA 310.2

Preparation Method: ALKALINITY

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO3)	14	mg/L	10		1	10	09/17/20	09/17/20 15:51	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	80	mg/L	10		1	10	09/21/20	09/22/20 09:40	1061

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Stream-3 **Date/Time Sampled:** 09/16/2020 13:30 **PSS Sample ID:** 20091705-005

Matrix: SURFACE WATER **Date/Time Received:** 09/17/2020 10:30

Nitrogen, Ammonia Analytical Method: SM 4500-NH3-F -2011 Preparation Method: SM4500-NH3B

Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	ND	mg/L	0.20		1	0.1	09/21/20	09/21/20 15:18	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

Qualifier(s): See Batch 178050 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	13	mg/L	5.0		1	5	09/22/20	09/22/20 14:13	1053

Total Metals (Surface Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:31	1051
Arsenic	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:31	1051
Barium	0.042	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:31	1051
Beryllium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:31	1051
Cadmium	ND	mg/L	0.0010		1	0.00025	09/23/20	09/23/20 19:31	1051
Calcium	9.9	mg/L	0.10		1	0.1	09/23/20	09/23/20 19:31	1051
Chromium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:31	1051
Cobalt	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:31	1051
Copper	ND	mg/L	0.0090		1	0.009	09/23/20	09/23/20 19:31	1051
Iron	1.9	mg/L	1.0		10	1	09/23/20	09/28/20 16:59	1051
Lead	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:31	1051
Magnesium	3.3	mg/L	1.0		10	1	09/23/20	09/28/20 16:59	1051
Manganese	0.080	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:31	1051
Mercury	ND	mg/L	0.00020		1	0.0002	09/23/20	09/23/20 19:31	1051
Nickel	ND	mg/L	0.011		1	0.011	09/23/20	09/23/20 19:31	1051
Potassium	2.0	mg/L	0.39		1	0.39	09/23/20	09/23/20 19:31	1051
Selenium	ND	mg/L	0.0050		1	0.005	09/23/20	09/23/20 19:31	1051
Silver	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:31	1051

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Stream-3
Matrix: SURFACE WATER

Date/Time Sampled: 09/16/2020 13:30 **PSS Sample ID:** 20091705-005

Date/Time Received: 09/17/2020 10:30

Total Metals (Surface Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	12	mg/L	2.0		10	2	09/23/20	09/28/20 16:59	1051
Thallium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:31	1051
Vanadium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:31	1051
Zinc	ND	mg/L	0.020		1	0.0054	09/23/20	09/23/20 19:31	1051
Hardness (Ca & Mg)	38	mg/L	4.37		1	4.4	09/23/20	09/23/20 19:31	1051

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Acetone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 18:24	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/22/20	09/22/20 18:24	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
2-Butanone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 18:24	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Benzene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/22/20	09/22/20 18:24	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/22/20	09/22/20 18:24	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:24	1011

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Stream-3	Date/Time Sampled: 09/16/2020 13:30 PSS Sample ID: 20091705-005								
Matrix: SURFACE WATER	Date/Time Received: 09/17/2020 10:30								

Volatiles - LF list	Analytical Method: SW-846 8260 B					Preparation Method: 5030B			
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	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 18:24	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 18:24	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 18:24	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 18:24	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/22/20	09/22/20 18:24	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:24	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/22/20	09/22/20 18:24	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/22/20	09/22/20 18:24	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		97	%		88-112	1		09/22/20	09/22/20 18:24
Dibromofluoromethane		102	%		93-111	1		09/22/20	09/22/20 18:24
Toluene-D8		101	%		94-107	1		09/22/20	09/22/20 18:24

Project Name: Cross Trails
PSS Project No.: 20091705

Sample ID: Stream-4

Date/Time Sampled: 09/16/2020 13:54 PSS Sample ID: 20091705-006

Date/Time Received: 09/17/2020 10:30

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	11	NTU	0.50		1	0.18	09/17/20	09/17/20 16:10	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	14	mg/L	5.0		1	0.5	09/17/20	09/17/20 16:41	1053
Nitrate	0.22	mg/L	0.10		1	0.044	09/17/20	09/17/20 16:41	1053
Sulfate	14	mg/L	5.0		1	1.6	09/17/20	09/17/20 16:41	1053

Alkalinity

Analytical Method: EPA 310.2

Preparation Method: ALKALINITY

Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO ₃)	22 mg/L	10		1	10	09/17/20	09/17/20 15:54	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst	
Total Dissolved Solids	97	mg/l	10		1	10	09/21/20	09/22/20	09:40	1061

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Stream-4 **Date/Time Sampled: 09/16/2020 13:54** **PSS Sample ID: 20091705-006**

Matrix: SURFACE WATER

Date/Time Received: 09/17/2020 10:30

Nitrogen, Ammonia

Analytical Method: SM 4500-NH3-F -2011

Preparation Method: SM4500-NH3B

Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	ND	mg/L	0.20		1	0.1	09/21/20	09/21/20 15:22	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

Qualifier(s): See Batch 178050 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	16	mg/L	5.0		1	5	09/22/20	09/22/20 14:13	1053

Total Metals (Surface Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:36	1051
Arsenic	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:36	1051
Barium	0.043	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:36	1051
Beryllium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:36	1051
Cadmium	ND	mg/L	0.0010		1	0.00025	09/23/20	09/23/20 19:36	1051
Calcium	13	mg/L	1.0		10	1	09/23/20	09/28/20 17:04	1051
Chromium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:36	1051
Cobalt	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:36	1051
Copper	ND	mg/L	0.0090		1	0.009	09/23/20	09/23/20 19:36	1051
Iron	2.0	mg/L	1.0		10	1	09/23/20	09/28/20 17:04	1051
Lead	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:36	1051
Magnesium	3.8	mg/L	1.0		10	1	09/23/20	09/28/20 17:04	1051
Manganese	0.083	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:36	1051
Mercury	ND	mg/L	0.00020		1	0.0002	09/23/20	09/23/20 19:36	1051
Nickel	ND	mg/L	0.011		1	0.011	09/23/20	09/23/20 19:36	1051
Potassium	2.2	mg/L	0.39		1	0.39	09/23/20	09/23/20 19:36	1051
Selenium	ND	mg/L	0.0050		1	0.005	09/23/20	09/23/20 19:36	1051
Silver	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:36	1051

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Stream-4
Matrix: SURFACE WATER

Date/Time Sampled: 09/16/2020 13:54 **PSS Sample ID:** 20091705-006

Date/Time Received: 09/17/2020 10:30

Total Metals (Surface Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	11	mg/L	2.0		10	2	09/23/20	09/28/20 17:04	1051
Thallium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:36	1051
Vanadium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:36	1051
Zinc	ND	mg/L	0.020		1	0.0054	09/23/20	09/23/20 19:36	1051
Hardness (Ca & Mg)	49	mg/L	6.62		10	6.6	09/23/20	09/28/20 17:04	1051

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Acetone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 18:46	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/22/20	09/22/20 18:46	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
2-Butanone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 18:46	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Benzene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/22/20	09/22/20 18:46	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/22/20	09/22/20 18:46	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 18:46	1011

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Stream-4
Matrix: SURFACE WATER

Date/Time Sampled: 09/16/2020 13:54 **PSS Sample ID:** 20091705-006

Date/Time Received: 09/17/2020 10:30

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 18:46	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 18:46	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 18:46	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 18:46	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/22/20	09/22/20 18:46	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 18:46	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/22/20	09/22/20 18:46	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/22/20	09/22/20 18:46	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		99	%		88-112	1		09/22/20	09/22/20 18:46
Dibromofluoromethane		102	%		93-111	1		09/22/20	09/22/20 18:46
Toluene-D8		102	%		94-107	1		09/22/20	09/22/20 18:46

Project Name: Cross Trails
PSS Project No.: 20091705

Sample ID: Stream-7 **Date/Time Sampled:** 09/16/2020 12:06 **PSS Sample ID:** 20091705-007

Matrix: SURFACE WATER

Date/Time Received: 09/17/2020 10:30

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	36	NTU	0.50		1	0.18	09/17/20	09/17/20 16:10	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst	
Chloride	25	mg/L	5.0		1	0.5	09/17/20	09/17/20	17:04	1053
Nitrate	0.29	mg/L	0.10		1	0.044	09/17/20	09/17/20	17:04	1053
Sulfate	34	mg/L	5.0		1	1.6	09/17/20	09/17/20	17:04	1053

Alkalinity (titrimetric)

Analytical Method: SM 2320B -11

The alkalinity to pH 4.4 = 350 mg CaCO₃/L

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO3)	350	mg/L	20		1	20	09/22/20	09/22/20 15:40	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	440	mg/L	10		1	10	09/21/20	09/22/20 09:40	1061

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Stream-7 **Date/Time Sampled:** 09/16/2020 12:06 **PSS Sample ID:** 20091705-007

Matrix: SURFACE WATER **Date/Time Received:** 09/17/2020 10:30

Nitrogen, Ammonia

Analytical Method: SM 4500-NH3-F -2011

Preparation Method: SM4500-NH3B

Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	0.19	mg/L	0.20	J	1	0.1	09/21/20	09/21/20 15:26	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

Qualifier(s): See Batch 178050 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	44	mg/L	5.0		1	5	09/22/20	09/22/20 14:13	1053

Total Metals (Surface Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:41	1051
Arsenic	0.0028	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:41	1051
Barium	0.079	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:41	1051
Beryllium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:41	1051
Cadmium	ND	mg/L	0.0010		1	0.00025	09/23/20	09/23/20 19:41	1051
Calcium	100	mg/L	5.0		50	5	09/23/20	09/25/20 20:34	1051
Chromium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:41	1051
Cobalt	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:41	1051
Copper	ND	mg/L	0.0090		1	0.009	09/23/20	09/23/20 19:41	1051
Iron	4.0	mg/L	1.0		10	1	09/23/20	09/28/20 17:09	1051
Lead	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:41	1051
Magnesium	33	mg/L	1.0		10	1	09/23/20	09/28/20 17:09	1051
Manganese	0.39	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:41	1051
Mercury	ND	mg/L	0.00020		1	0.0002	09/23/20	09/23/20 19:41	1051
Nickel	ND	mg/L	0.011		1	0.011	09/23/20	09/23/20 19:41	1051
Potassium	13	mg/L	3.9		10	3.9	09/23/20	09/28/20 17:09	1051
Selenium	ND	mg/L	0.0050		1	0.005	09/23/20	09/23/20 19:41	1051
Silver	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:41	1051

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Stream-7
Matrix: SURFACE WATER

Date/Time Sampled: 09/16/2020 12:06 **PSS Sample ID:** 20091705-007

Date/Time Received: 09/17/2020 10:30

Total Metals (Surface Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	30	mg/L	2.0		10	2	09/23/20	09/28/20 17:09	1051
Thallium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:41	1051
Vanadium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:41	1051
Zinc	ND	mg/L	0.020		1	0.0054	09/23/20	09/23/20 19:41	1051
Hardness (Ca & Mg)	390	mg/L	16.60		50	17	09/23/20	09/28/20 17:09	1051

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Acetone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 19:09	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/22/20	09/22/20 19:09	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
2-Butanone	ND	ug/L	5.0		1	5	09/22/20	09/22/20 19:09	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Benzene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/22/20	09/22/20 19:09	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/22/20	09/22/20 19:09	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/22/20	09/22/20 19:09	1011

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Stream-7
Matrix: SURFACE WATER

Date/Time Sampled: 09/16/2020 12:06 **PSS Sample ID:** 20091705-007

Date/Time Received: 09/17/2020 10:30

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/22/20	09/22/20 19:09	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 19:09	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 19:09	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/22/20	09/22/20 19:09	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/22/20	09/22/20 19:09	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/22/20	09/22/20 19:09	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/22/20	09/22/20 19:09	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/22/20	09/22/20 19:09	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		98	%		88-112	1		09/22/20	09/22/20 19:09
Dibromofluoromethane		102	%		93-111	1		09/22/20	09/22/20 19:09
Toluene-D8		101	%		94-107	1		09/22/20	09/22/20 19:09

Project Name: Cross Trails
PSS Project No.: 20091705

Sample ID: Stream-8 **Date/Time Sampled:** 09/16/2020 17:10 **PSS Sample ID:** 20091705-008

Matrix: SURFACE WATER

Date/Time Received: 09/17/2020 10:30

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	33	NTU	0.50		1	0.18	09/17/20	09/17/20 16:10	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	11	mg/L	5.0		1	0.5	09/17/20	09/17/20 17:26	1053
Nitrate	0.045	mg/L	0.10	J	1	0.044	09/17/20	09/17/20 17:26	1053
Sulfate	10	mg/L	5.0		1	1.6	09/17/20	09/17/20 17:26	1053

Alkalinity (titrimetric)

Analytical Method: SM 2320B -11

The alkalinity to pH 4.7 = 100 mg CaCO₃/L.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (CaCO3)	100	mg/L	20		1	20	09/22/20	09/22/20 15:40	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	170	mg/L	10		1	10	09/21/20	09/22/20 09:40	1061

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Stream-8 **Date/Time Sampled:** 09/16/2020 17:10 **PSS Sample ID:** 20091705-008

Matrix: SURFACE WATER **Date/Time Received:** 09/17/2020 10:30

Nitrogen, Ammonia

Analytical Method: SM 4500-NH3-F -2011

Preparation Method: SM4500-NH3B

Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	0.13	mg/L	0.20	J	1	0.1	09/21/20	09/21/20 15:30	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

Qualifier(s): See Batch 178050 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	36	mg/L	5.0		1	5	09/22/20	09/22/20 14:13	1053

Total Metals (Surface Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:46	1051
Arsenic	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:46	1051
Barium	0.056	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:46	1051
Beryllium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:46	1051
Cadmium	ND	mg/L	0.0010		1	0.00025	09/23/20	09/23/20 19:46	1051
Calcium	29	mg/L	1.0		10	1	09/23/20	09/28/20 17:14	1051
Chromium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:46	1051
Cobalt	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:46	1051
Copper	ND	mg/L	0.0090		1	0.009	09/23/20	09/23/20 19:46	1051
Iron	4.3	mg/L	1.0		10	1	09/23/20	09/28/20 17:14	1051
Lead	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:46	1051
Magnesium	9.0	mg/L	1.0		10	1	09/23/20	09/28/20 17:14	1051
Manganese	0.21	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:46	1051
Mercury	ND	mg/L	0.00020		1	0.0002	09/23/20	09/23/20 19:46	1051
Nickel	ND	mg/L	0.011		1	0.011	09/23/20	09/23/20 19:46	1051
Potassium	4.3	mg/L	0.39		1	0.39	09/23/20	09/23/20 19:46	1051
Selenium	ND	mg/L	0.0050		1	0.005	09/23/20	09/23/20 19:46	1051
Silver	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:46	1051

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Stream-8
Matrix: SURFACE WATER

Date/Time Sampled: 09/16/2020 17:10 **PSS Sample ID:** 20091705-008

Date/Time Received: 09/17/2020 10:30

Total Metals (Surface Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	12	mg/L	2.0		10	2	09/23/20	09/28/20 17:14	1051
Thallium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:46	1051
Vanadium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:46	1051
Zinc	ND	mg/L	0.020		1	0.0054	09/23/20	09/23/20 19:46	1051
Hardness (Ca & Mg)	110	mg/L	6.62		10	6.6	09/23/20	09/28/20 17:14	1051

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Acetone	ND	ug/L	5.0		1	5	09/23/20	09/23/20 11:24	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/23/20	09/23/20 11:24	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Methylene Chloride	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
2-Butanone	ND	ug/L	5.0		1	5	09/23/20	09/23/20 11:24	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Benzene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/23/20	09/23/20 11:24	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/23/20	09/23/20 11:24	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:24	1011

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Stream-8
Matrix: SURFACE WATER

Date/Time Sampled: 09/16/2020 17:10 **PSS Sample ID:** 20091705-008

Date/Time Received: 09/17/2020 10:30

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 11:24	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/23/20	09/23/20 11:24	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/23/20	09/23/20 11:24	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/23/20	09/23/20 11:24	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/23/20	09/23/20 11:24	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:24	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/23/20	09/23/20 11:24	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/23/20	09/23/20 11:24	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		96	%		88-112	1		09/23/20	09/23/20 11:24
Dibromofluoromethane		103	%		93-111	1		09/23/20	09/23/20 11:24
Toluene-D8		102	%		94-107	1		09/23/20	09/23/20 11:24

Project Name: Cross Trails
PSS Project No.: 20091705

Sample ID: RB **Date/Time Sampled:** 09/16/2020 17:50 **PSS Sample ID:** 20091705-009

Matrix: SURFACE WATER

Date/Time Received: 09/17/2020 10:30

Turbidity

Analytical Method: EPA 180.1

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Turbidity	0.65	NTU	0.50		1	0.18	09/17/20	09/17/20 16:10	1064

Inorganic Anions (NO₃, Cl, SO₄)

Analytical Method: EPA 300.0

Preparation Method: E300.0P

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloride	ND	mg/L	5.0		1	0.5	09/17/20	09/17/20 17:49	1053
Nitrate	ND	mg/L	0.10		1	0.044	09/17/20	09/17/20 17:49	1053
Sulfate	ND	mg/L	5.0		1	1.6	09/17/20	09/17/20 17:49	1053

Alkalinity (Titrimetric) Low Level

Analytical Method: SM 2320B -11

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Alkalinity, Total (as CaCO3)	ND	mg/L	1.0		1	1	09/21/20	09/21/20 15:00	1053

Total Dissolved Solids (TDS)

Analytical Method: SM 2540C -2011

Preparation Method: SM2540C

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Dissolved Solids	ND	mg/L	10		1	10	09/21/20	09/22/20 09:40	1061

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: RB **Date/Time Sampled:** 09/16/2020 17:50 **PSS Sample ID:** 20091705-009

Matrix: SURFACE WATER **Date/Time Received:** 09/17/2020 10:30

Nitrogen, Ammonia

Analytical Method: SM 4500-NH3-F -2011

Preparation Method: SM4500-NH3B

Qualifier(s): See Batch 178048 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Nitrogen, Ammonia (as N)	ND	mg/L	0.20		1	0.1	09/21/20	09/21/20 15:34	1053

Chemical Oxygen Demand - low Level Analytical Method: SM 5220D -2011

Qualifier(s): See Batch 178050 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chemical Oxygen Demand	ND	mg/L	5.0		1	5	09/22/20	09/22/20 14:13	1053

Total Metals (Surface Water)

Analytical Method: SW-846 6020 A

Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Antimony	0.0060	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:51	1051
Arsenic	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:51	1051
Barium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:51	1051
Beryllium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:51	1051
Cadmium	ND	mg/L	0.0010		1	0.00025	09/23/20	09/23/20 19:51	1051
Calcium	ND	mg/L	0.10		1	0.1	09/23/20	09/23/20 19:51	1051
Chromium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:51	1051
Cobalt	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:51	1051
Copper	ND	mg/L	0.0090		1	0.009	09/23/20	09/23/20 19:51	1051
Iron	ND	mg/L	0.10		1	0.1	09/23/20	09/23/20 19:51	1051
Lead	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:51	1051
Magnesium	0.10	mg/L	0.10		1	0.1	09/23/20	09/23/20 19:51	1051
Manganese	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:51	1051
Mercury	ND	mg/L	0.00020		1	0.0002	09/23/20	09/23/20 19:51	1051
Nickel	ND	mg/L	0.011		1	0.011	09/23/20	09/23/20 19:51	1051
Potassium	ND	mg/L	0.39		1	0.39	09/23/20	09/23/20 19:51	1051
Selenium	ND	mg/L	0.0050		1	0.005	09/23/20	09/23/20 19:51	1051
Silver	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:51	1051

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: RB	Date/Time Sampled: 09/16/2020 17:50 PSS Sample ID: 20091705-009								
Matrix: SURFACE WATER	Date/Time Received: 09/17/2020 10:30								

Total Metals (Surface Water) Analytical Method: SW-846 6020 A Preparation Method: 3010A

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Sodium	0.25	mg/L	0.20		1	0.2	09/23/20	09/23/20 19:51	1051
Thallium	ND	mg/L	0.0020		1	0.002	09/23/20	09/23/20 19:51	1051
Vanadium	ND	mg/L	0.010		1	0.01	09/23/20	09/23/20 19:51	1051
Zinc	ND	mg/L	0.020		1	0.0054	09/23/20	09/23/20 19:51	1051
Hardness (Ca & Mg)	0.42	mg/L	0.66		1	0.66	09/23/20	09/23/20 19:51	1051

Volatiles - LF list Analytical Method: SW-846 8260 B Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Acetone	ND	ug/L	5.0		1	5	09/23/20	09/23/20 11:47	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/23/20	09/23/20 11:47	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Methylene Chloride	0.76	ug/L	1.0	J	1	0.5	09/23/20	09/23/20 11:47	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
2-Butanone	ND	ug/L	5.0		1	5	09/23/20	09/23/20 11:47	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Chloroform	0.63	ug/L	1.0	J	1	0.5	09/23/20	09/23/20 11:47	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Benzene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/23/20	09/23/20 11:47	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/23/20	09/23/20 11:47	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 11:47	1011

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: RB	Date/Time Sampled: 09/16/2020 17:50	PSS Sample ID: 20091705-009
Matrix: SURFACE WATER	Date/Time Received: 09/17/2020 10:30	

Volatiles - LF list	Analytical Method: SW-846 8260 B	Preparation Method: 5030B
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	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 11:47	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/23/20	09/23/20 11:47	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
1,1,2-Trichloroethane	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
Toluene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
2-Hexanone	ND	ug/L	5.0	1	2.5	09/23/20	09/23/20 11:47	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
Dibromochloromethane	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
Bromoform	ND	ug/L	5.0	1	2.5	09/23/20	09/23/20 11:47	1011	
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
Tetrachloroethylene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
Chlorobenzene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
Ethylbenzene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
m,p-Xylenes	ND	ug/L	2.0	1	1	09/23/20	09/23/20 11:47	1011	
Styrene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
o-Xylene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
1,2,3-Trichloropropane	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
1,4-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
1,2-Dichlorobenzene	ND	ug/L	1.0	1	0.5	09/23/20	09/23/20 11:47	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1	1	09/23/20	09/23/20 11:47	1011	
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1	1	09/23/20	09/23/20 11:47	1011	
Surrogate(s)		Recovery			Limits				
4-Bromofluorobenzene		99	%		88-112	1		09/23/20	09/23/20 11:47
Dibromofluoromethane		105	%		93-111	1		09/23/20	09/23/20 11:47
Toluene-D8		101	%		94-107	1		09/23/20	09/23/20 11:47

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Trip Blank

Date/Time Sampled: 09/17/2020 10:30 **PSS Sample ID:** 20091705-010

Matrix: WATER

Date/Time Received: 09/17/2020 10:30

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Vinyl Chloride	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Bromomethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Chloroethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Acetone	ND	ug/L	5.0	1	5	09/23/20	09/23/20 12:09	1011	
Trichlorofluoromethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
1,1-Dichloroethene	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Methylene Chloride	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
trans-1,2-dichloroethene	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Methyl-t-butyl ether	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
1,1-Dichloroethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Vinyl Acetate	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
2-Butanone	ND	ug/L	5.0	1	5	09/23/20	09/23/20 12:09	1011	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Bromochloromethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Chloroform	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
1,1,1-Trichloroethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
1,2-Dichloroethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Carbon Tetrachloride	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Benzene	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Dibromomethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
1,2-Dichloropropane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Acrylonitrile	ND	ug/L	5.0	1	5	09/23/20	09/23/20 12:09	1011	
Trichloroethene	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Carbon Disulfide	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Bromodichloromethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0	1	2.5	09/23/20	09/23/20 12:09	1011	
trans-1,3-dichloropropene	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
1,1,2-Trichloroethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Toluene	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
2-Hexanone	ND	ug/L	5.0	1	2.5	09/23/20	09/23/20 12:09	1011	
1,2-Dibromoethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
Dibromochloromethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	1	0.5	09/23/20	09/23/20 12:09	1011

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Trip Blank

Date/Time Sampled: 09/17/2020 10:30 **PSS Sample ID:** 20091705-010

Matrix: WATER

Date/Time Received: 09/17/2020 10:30

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Bromoform	ND	ug/L	5.0	1		2.5	09/23/20	09/23/20 12:09	1011
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:09	1011
Tetrachloroethylene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:09	1011
Chlorobenzene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:09	1011
Ethylbenzene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:09	1011
m,p-Xylenes	ND	ug/L	2.0	1		1	09/23/20	09/23/20 12:09	1011
Styrene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:09	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:09	1011
o-Xylene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:09	1011
1,2,3-Trichloropropane	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:09	1011
1,4-Dichlorobenzene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:09	1011
1,2-Dichlorobenzene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:09	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1		1	09/23/20	09/23/20 12:09	1011
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1		1	09/23/20	09/23/20 12:09	1011
Surrogate(s)		Recovery		Limits					
4-Bromofluorobenzene		96	%	88-112		1		09/23/20	09/23/20 12:09
Dibromofluoromethane		103	%	93-111		1		09/23/20	09/23/20 12:09
Toluene-D8		102	%	94-107		1		09/23/20	09/23/20 12:09

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Trip Blank

Date/Time Sampled: 09/17/2020 10:30 **PSS Sample ID:** 20091705-011

Matrix: WATER

Date/Time Received: 09/17/2020 10:30

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Vinyl Chloride	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Bromomethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Chloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Acetone	ND	ug/L	5.0		1	5	09/23/20	09/23/20 12:32	1011
Trichlorofluoromethane	ND	ug/L	1.0		1	1	09/23/20	09/23/20 12:32	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Methylene Chloride	0.60	ug/L	1.0	J	1	0.5	09/23/20	09/23/20 12:32	1011
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Vinyl Acetate	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
2-Butanone	ND	ug/L	5.0		1	5	09/23/20	09/23/20 12:32	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Bromochloromethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Chloroform	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Benzene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Dibromomethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Acrylonitrile	ND	ug/L	5.0		1	5	09/23/20	09/23/20 12:32	1011
Trichloroethene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Carbon Disulfide	ND	ug/L	1.0		1	1	09/23/20	09/23/20 12:32	1011
Bromodichloromethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	2.5	09/23/20	09/23/20 12:32	1011
trans-1,3-dichloropropene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Toluene	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
2-Hexanone	ND	ug/L	5.0		1	2.5	09/23/20	09/23/20 12:32	1011
1,2-Dibromoethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
Dibromochloromethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0		1	0.5	09/23/20	09/23/20 12:32	1011

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Project Name: Cross Trails
 PSS Project No.: 20091705

Sample ID: Trip Blank

Date/Time Sampled: 09/17/2020 10:30 **PSS Sample ID:** 20091705-011

Matrix: WATER

Date/Time Received: 09/17/2020 10:30

Volatiles - LF list

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Bromoform	ND	ug/L	5.0	1		2.5	09/23/20	09/23/20 12:32	1011
trans-1,4-dichloro-2-butene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:32	1011
Tetrachloroethylene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:32	1011
Chlorobenzene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:32	1011
Ethylbenzene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:32	1011
m,p-Xylenes	ND	ug/L	2.0	1		1	09/23/20	09/23/20 12:32	1011
Styrene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:32	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:32	1011
o-Xylene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:32	1011
1,2,3-Trichloropropane	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:32	1011
1,4-Dichlorobenzene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:32	1011
1,2-Dichlorobenzene	ND	ug/L	1.0	1		0.5	09/23/20	09/23/20 12:32	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.0	1		1	09/23/20	09/23/20 12:32	1011
Iodomethane (Methyl Iodide)	ND	ug/L	1.0	1		1	09/23/20	09/23/20 12:32	1011

Surrogate(s)	Recovery	Limits					
4-Bromofluorobenzene	97	%	88-112	1		09/23/20	09/23/20 12:32 1011
Dibromofluoromethane	103	%	93-111	1		09/23/20	09/23/20 12:32 1011
Toluene-D8	102	%	94-107	1		09/23/20	09/23/20 12:32 1011

Project Name: Cross Trails

PSS Project No.: 20091705

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

Preservative not indicated on COC for VOC, metals, NH₃, or COD. Received containers preserved with HCl, HNO₃, and H₂SO₄.

General Comments:

Metals results reflect project specific reporting limits and do not reflect laboratory MDLs.

Analytical:**Nitrogen, Ammonia****Batch: 178048**

The opening CCV was below the control limit of 90% at 89%. However, as the CCV was made from a secondary source, it passed the criteria for the ICV of 85-115%, and, as such, the CCV was acceptable.

Analytical:**Chemical Oxygen Demand - low Level****Batch: 178050**

Matrix spike (MS) exceedance identified; see QC summary.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Project Name: Cross Trails
PSS Project No.: 20091705

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
EPA 180.1	MW-4A	Initial	20091705-001	W	177919	177919	09/17/2020 16:10	09/17/2020 16:10
	MW-5	Initial	20091705-002	W	177919	177919	09/17/2020 16:10	09/17/2020 16:10
	MW-6	Initial	20091705-003	W	177919	177919	09/17/2020 16:10	09/17/2020 16:10
	MW-13	Initial	20091705-004	W	177919	177919	09/17/2020 16:10	09/17/2020 16:10
	Stream-3	Initial	20091705-005	W	177919	177919	09/17/2020 16:10	09/17/2020 16:10
	Stream-4	Initial	20091705-006	W	177919	177919	09/17/2020 16:10	09/17/2020 16:10
	Stream-7	Initial	20091705-007	W	177919	177919	09/17/2020 16:10	09/17/2020 16:10
	Stream-8	Initial	20091705-008	W	177919	177919	09/17/2020 16:10	09/17/2020 16:10
	RB	Initial	20091705-009	W	177919	177919	09/17/2020 16:10	09/17/2020 16:10
	177919-1-BLK	BLK	177919-1-BLK	W	177919	177919	09/17/2020 16:10	09/17/2020 16:10
EPA 300.0	MW-4A D	MD	20091705-001 D	W	177919	177919	09/17/2020 16:10	09/17/2020 16:10
	MW-4A	Initial	20091705-001	W	83115	177958	09/17/2020 12:44	09/17/2020 13:14
	MW-5	Initial	20091705-002	W	83115	177958	09/17/2020 12:44	09/17/2020 14:23
	MW-6	Initial	20091705-003	W	83115	177958	09/17/2020 12:44	09/17/2020 14:46
	MW-13	Initial	20091705-004	W	83115	177958	09/17/2020 12:44	09/17/2020 15:09
	Stream-3	Initial	20091705-005	W	83115	177958	09/17/2020 12:44	09/17/2020 15:32
	Stream-4	Initial	20091705-006	W	83115	177958	09/17/2020 12:44	09/17/2020 16:41
	Stream-7	Initial	20091705-007	W	83115	177958	09/17/2020 12:44	09/17/2020 17:04
	Stream-8	Initial	20091705-008	W	83115	177958	09/17/2020 12:44	09/17/2020 17:26
	RB	Initial	20091705-009	W	83115	177958	09/17/2020 12:44	09/17/2020 17:49
	83115-1-BKS	BKS	83115-1-BKS	W	83115	177958	09/17/2020 09:35	09/17/2020 11:18
	83115-1-BLK	BLK	83115-1-BLK	W	83115	177958	09/17/2020 09:35	09/17/2020 10:55
	MW-02R-09152020 S	MS	20091531-001 S	W	83115	177958	09/17/2020 12:45	09/17/2020 18:35
	MW-4A S	MS	20091705-001 S	W	83115	177958	09/17/2020 12:44	09/17/2020 13:37
	MW-4A SD	MSD	20091705-001 S	W	83115	177958	09/17/2020 12:44	09/17/2020 14:00
	83142-1-BKS	BKS	83142-1-BKS	W	83142	177997	09/18/2020 10:11	09/18/2020 11:49
	83142-1-BLK	BLK	83142-1-BLK	W	83142	177997	09/18/2020 10:11	09/18/2020 11:26
	MW-19-09162020 S	MS	20091627-001 S	W	83142	177997	09/18/2020 10:11	09/18/2020 22:33
	RW-05R-09162020 S	MS	20091629-006 S	W	83142	177997	09/18/2020 10:11	09/18/2020 19:06
	MW-19-09162020 SD	MSD	20091627-001 S	W	83142	177997	09/18/2020 10:11	09/18/2020 22:56
	MW-13	Reanalysis	20091705-004	W	83115	177997	09/17/2020 12:44	09/18/2020 12:58
EPA 310.2	Stream-3	Initial	20091705-005	W	83130	177921	09/17/2020 15:30	09/17/2020 15:51
	Stream-4	Initial	20091705-006	W	83130	177921	09/17/2020 15:30	09/17/2020 15:54
	83130-1-BKS	BKS	83130-1-BKS	W	83130	177921	09/17/2020 15:30	09/17/2020 15:48
	83130-1-BLK	BLK	83130-1-BLK	W	83130	177921	09/17/2020 16:33	09/17/2020 15:47
	83130-1-BSD	BSD	83130-1-BSD	W	83130	177921	09/17/2020 15:30	09/17/2020 15:49
	Stream-4 D	MD	20091705-006 D	W	83130	177921	09/17/2020 15:30	09/17/2020 15:56
SM 2320B -11	MW-4A	Initial	20091705-001	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40
	MW-5	Initial	20091705-002	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40
	MW-6	Initial	20091705-003	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40
	MW-13	Initial	20091705-004	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40
	Stream-7	Initial	20091705-007	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40
	Stream-8	Initial	20091705-008	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40
	178064-1-BKS	BKS	178064-1-BKS	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40

Project Name: Cross Trails
PSS Project No.: 20091705

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
SM 2320B -11	178064-1-BLK	BLK	178064-1-BLK	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40
	MW-1 D	MD	20091601-001 D	W	178064	178064	09/22/2020 15:40	09/22/2020 15:40
SM 2320B -11	RB	Initial	20091705-009	W	178007	178007	09/21/2020 15:00	09/21/2020 15:00
	178007-1-BKS	BKS	178007-1-BKS	W	178007	178007	09/21/2020 15:00	09/21/2020 15:00
	178007-1-BLK	BLK	178007-1-BLK	W	178007	178007	09/21/2020 15:00	09/21/2020 15:00
	MW-2 D	MD	20091601-002 D	W	178007	178007	09/21/2020 15:00	09/21/2020 15:00
SM 2540C -2011	MW-4A	Initial	20091705-001	W	83169	178072	09/21/2020 13:22	09/22/2020 09:40
	MW-5	Initial	20091705-002	W	83169	178072	09/21/2020 13:22	09/22/2020 09:40
	MW-6	Initial	20091705-003	W	83169	178072	09/21/2020 13:22	09/22/2020 09:40
	MW-13	Initial	20091705-004	W	83169	178072	09/21/2020 13:22	09/22/2020 09:40
	Stream-3	Initial	20091705-005	W	83169	178072	09/21/2020 13:22	09/22/2020 09:40
	Stream-4	Initial	20091705-006	W	83169	178072	09/21/2020 13:22	09/22/2020 09:40
	Stream-7	Initial	20091705-007	W	83169	178072	09/21/2020 13:22	09/22/2020 09:40
	Stream-8	Initial	20091705-008	W	83169	178072	09/21/2020 13:22	09/22/2020 09:40
	RB	Initial	20091705-009	W	83169	178072	09/21/2020 13:22	09/22/2020 09:40
	83169-1-BKS	BKS	83169-1-BKS	W	83169	178072	09/21/2020 13:22	09/22/2020 09:40
	83169-1-BLK	BLK	83169-1-BLK	W	83169	178072	09/21/2020 13:22	09/22/2020 09:40
	MW-4A D	MD	20091705-001 D	W	83169	178072	09/21/2020 13:22	09/22/2020 09:40
	MOR-09182020 D	MD	20091816-002 D	W	83169	178072	09/21/2020 13:22	09/22/2020 09:40
SM 4500-NH3-F -2011	MW-4A	Initial	20091705-001	W	83162	178048	09/21/2020 11:10	09/21/2020 15:02
	MW-5	Initial	20091705-002	W	83162	178048	09/21/2020 11:10	09/21/2020 15:06
	MW-6	Initial	20091705-003	W	83162	178048	09/21/2020 11:10	09/21/2020 15:10
	MW-13	Initial	20091705-004	W	83162	178048	09/21/2020 11:10	09/21/2020 15:14
	Stream-3	Initial	20091705-005	W	83162	178048	09/21/2020 11:10	09/21/2020 15:18
	Stream-4	Initial	20091705-006	W	83162	178048	09/21/2020 11:10	09/21/2020 15:22
	Stream-7	Initial	20091705-007	W	83162	178048	09/21/2020 11:47	09/21/2020 15:26
	Stream-8	Initial	20091705-008	W	83162	178048	09/21/2020 11:47	09/21/2020 15:30
	RB	Initial	20091705-009	W	83162	178048	09/21/2020 11:47	09/21/2020 15:34
	83162-1-BKS	BKS	83162-1-BKS	W	83162	178048	09/21/2020 11:47	09/21/2020 14:02
	83162-1-BLK	BLK	83162-1-BLK	W	83162	178048	09/21/2020 11:47	09/21/2020 13:58
	83162-1-BSD	BSD	83162-1-BSD	W	83162	178048	09/21/2020 11:10	09/21/2020 14:06
	MW-2 S	MS	20091601-002 S	W	83162	178048	09/21/2020 11:10	09/21/2020 14:18
	MW-2 SD	MSD	20091601-002 S	W	83162	178048	09/21/2020 11:10	09/21/2020 14:22
SM 5220D -2011	MW-4A	Initial	20091705-001	W	178050	178050	09/22/2020 14:13	09/22/2020 14:13
	MW-5	Initial	20091705-002	W	178050	178050	09/22/2020 14:13	09/22/2020 14:13
	MW-6	Initial	20091705-003	W	178050	178050	09/22/2020 14:13	09/22/2020 14:13
	MW-13	Initial	20091705-004	W	178050	178050	09/22/2020 14:13	09/22/2020 14:13
	Stream-3	Initial	20091705-005	W	178050	178050	09/22/2020 14:13	09/22/2020 14:13
	Stream-4	Initial	20091705-006	W	178050	178050	09/22/2020 14:13	09/22/2020 14:13
	Stream-7	Initial	20091705-007	W	178050	178050	09/22/2020 14:13	09/22/2020 14:13
	Stream-8	Initial	20091705-008	W	178050	178050	09/22/2020 14:13	09/22/2020 14:13
	RB	Initial	20091705-009	W	178050	178050	09/22/2020 14:13	09/22/2020 14:13
	178050-1-BKS	BKS	178050-1-BKS	W	178050	178050	09/22/2020 14:13	09/22/2020 14:13
	178050-1-BLK	BLK	178050-1-BLK	W	178050	178050	09/22/2020 14:13	09/22/2020 14:13

Project Name: Cross Trails
 PSS Project No.: 20091705

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
SM 5220D -2011	MW-4A S	MS	20091705-001 S	W	178050	178050	09/22/2020 14:13	09/22/2020 14:13
	MW-4A SD	MSD	20091705-001 S	W	178050	178050	09/22/2020 14:13	09/22/2020 14:13
SW-846 6020 A	MW-4A	Initial	20091705-001	W	83198	178179	09/23/2020 12:56	09/23/2020 18:33
	MW-5	Initial	20091705-002	W	83198	178179	09/23/2020 12:56	09/23/2020 18:57
	MW-6	Initial	20091705-003	W	83198	178179	09/23/2020 12:56	09/23/2020 19:02
	MW-13	Initial	20091705-004	W	83198	178179	09/23/2020 12:56	09/23/2020 19:07
	83198-1-BKS	BKS	83198-1-BKS	W	83198	178179	09/23/2020 12:56	09/23/2020 18:28
	83198-1-BLK	BLK	83198-1-BLK	W	83198	178179	09/23/2020 12:56	09/23/2020 18:24
	MW-4A S	MS	20091705-001 S	W	83198	178179	09/23/2020 12:56	09/23/2020 18:38
	MW-4A S	Reanalysis	20091705-001 S	W	83198	178179	09/23/2020 12:56	09/23/2020 18:38
	MW-4A SD	MSD	20091705-001 S	W	83198	178179	09/23/2020 12:56	09/23/2020 18:43
	MW-4A SD	Reanalysis	20091705-001 S	W	83198	178179	09/23/2020 12:56	09/23/2020 18:43
	MW-13	Reanalysis	20091705-004	W	83198	178249	09/23/2020 12:56	09/25/2020 20:19
	MW-4A	Reanalysis	20091705-001	W	83198	178283	09/23/2020 12:56	09/28/2020 16:40
	MW-5	Reanalysis	20091705-002	W	83198	178283	09/23/2020 12:56	09/28/2020 16:45
	MW-6	Reanalysis	20091705-003	W	83198	178283	09/23/2020 12:56	09/28/2020 16:50
	MW-13	Reanalysis	20091705-004	W	83198	178283	09/23/2020 12:56	09/28/2020 16:55
SW-846 6020 A	Stream-3	Initial	20091705-005	W	83198	178179	09/23/2020 12:56	09/23/2020 19:31
	Stream-4	Initial	20091705-006	W	83198	178179	09/23/2020 12:56	09/23/2020 19:36
	Stream-7	Initial	20091705-007	W	83198	178179	09/23/2020 12:56	09/23/2020 19:41
	Stream-8	Initial	20091705-008	W	83198	178179	09/23/2020 12:56	09/23/2020 19:46
	RB	Initial	20091705-009	W	83198	178179	09/23/2020 12:56	09/23/2020 19:51
	Stream-7	Reanalysis	20091705-007	W	83198	178249	09/23/2020 12:56	09/25/2020 20:34
	Stream-3	Reanalysis	20091705-005	W	83198	178283	09/23/2020 12:56	09/28/2020 16:59
	Stream-4	Reanalysis	20091705-006	W	83198	178283	09/23/2020 12:56	09/28/2020 17:04
	Stream-7	Reanalysis	20091705-007	W	83198	178283	09/23/2020 12:56	09/28/2020 17:09
	Stream-8	Reanalysis	20091705-008	W	83198	178283	09/23/2020 12:56	09/28/2020 17:14
SW-846 8260 B	MW-4A	Initial	20091705-001	W	83190	178073	09/22/2020 08:43	09/22/2020 16:54
	MW-5	Initial	20091705-002	W	83190	178073	09/22/2020 08:43	09/22/2020 17:16
	MW-6	Initial	20091705-003	W	83190	178073	09/22/2020 08:43	09/22/2020 17:39
	MW-13	Initial	20091705-004	W	83190	178073	09/22/2020 08:43	09/22/2020 18:01
	Stream-3	Initial	20091705-005	W	83190	178073	09/22/2020 08:43	09/22/2020 18:24
	Stream-4	Initial	20091705-006	W	83190	178073	09/22/2020 08:43	09/22/2020 18:46
	Stream-7	Initial	20091705-007	W	83190	178073	09/22/2020 08:43	09/22/2020 19:09
	83190-1-BKS	BKS	83190-1-BKS	W	83190	178073	09/22/2020 08:43	09/22/2020 09:45
	83190-1-BLK	BLK	83190-1-BLK	W	83190	178073	09/22/2020 08:43	09/22/2020 11:15
	WS-09182020 S	MS	20091816-001 S	W	83190	178073	09/22/2020 08:43	09/22/2020 15:01
	WS-09182020 SD	MSD	20091816-001 S	W	83190	178073	09/22/2020 08:43	09/22/2020 15:23
	Stream-8	Initial	20091705-008	W	83202	178122	09/23/2020 08:30	09/23/2020 11:24
	RB	Initial	20091705-009	W	83202	178122	09/23/2020 08:30	09/23/2020 11:47
	Trip Blank	Initial	20091705-010	W	83202	178122	09/23/2020 08:30	09/23/2020 12:09
	Trip Blank	Initial	20091705-011	W	83202	178122	09/23/2020 08:30	09/23/2020 12:32
	83202-1-BKS	BKS	83202-1-BKS	W	83202	178122	09/23/2020 08:30	09/23/2020 09:31
	83202-1-BLK	BLK	83202-1-BLK	W	83202	178122	09/23/2020 08:30	09/23/2020 11:01

Project Name: Cross Trails
PSS Project No.: 20091705

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
SW-846 8260 B	Stream-8 S	MS	20091705-008 S	W	83202	178122	09/23/2020 08:30	09/23/2020 14:47
	Stream-8 SD	MSD	20091705-008 S	W	83202	178122	09/23/2020 08:30	09/23/2020 15:10

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Project Name Cross Trails

PSS Project No.: 20091705

Analytical Method: EPA 180.1

Seq Number: 177919

Matrix: Water

MB Sample Id: 177919-1-BLK

Parameter	MB Result	LOD	RL	Units	Flag
Turbidity	ND	0.1800	0.5000	NTU	

Analytical Method: EPA 180.1

Seq Number: 177919

Matrix: Ground Water

Parent Sample Id: 20091705-001

MD Sample Id: 20091705-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Flag
Turbidity	3.500	3.400	3	20	NTU	

Analytical Method: EPA 310.2

Seq Number: 177921

Matrix: Water

Prep Method: Alkalinity_Prep

MB Sample Id: 83130-1-BLK

LCS Sample Id: 83130-1-BKS

Date Prep: 09/17/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Alkalinity, Total (CaCO3)	<10.00	60.00	54.82	91	57.09	95	90-110	4	20	mg/L	

Analytical Method: EPA 310.2

Seq Number: 177921

Matrix: Surface Water

Prep Method: Alkalinity_Prep

Parent Sample Id: 20091705-006

MD Sample Id: 20091705-006 D

Date Prep: 09/17/20

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Flag
Alkalinity, Total (CaCO3)	21.99	23.85	8	20	mg/L	

Analytical Method: SM 2320B -11

Seq Number: 178007

Matrix: Water

MB Sample Id: 178007-1-BLK

LCS Sample Id: 178007-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Alkalinity, Total (as CaCO3)	<1.000	6.000	6.200	103	80-120	mg/L	

Analytical Method: SM 2320B -11

Seq Number: 178064

Matrix: Water

MB Sample Id: 178064-1-BLK

LCS Sample Id: 178064-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Alkalinity, Total (CaCO3)	<20.0	60.0	60.0	100	80-120	mg/L	

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Project Name Cross Trails

PSS Project No.: 20091705

Analytical Method: SM 2540C -2011

Seq Number: 178072

Matrix: Water

Prep Method: SM2540C_Prep

MB Sample Id: 83169-1-BLK

LCS Sample Id: 83169-1-BKS

Date Prep: 09/21/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Total Dissolved Solids	<10.00	500	483	97	80-120	mg/L	

Analytical Method: SM 2540C -2011

Seq Number: 178072

Matrix: Ground Water

Prep Method: SM2540C_Prep

Parent Sample Id: 20091705-001

MD Sample Id: 20091705-001 D

Date Prep: 09/21/20

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Flag
Total Dissolved Solids	186	195	5	10	mg/L	

Analytical Method: SM 4500-NH3-F -2011

Seq Number: 178048

Matrix: Water

Prep Method: SM4500-NH3B

MB Sample Id: 83162-1-BLK

LCS Sample Id: 83162-1-BKS

Date Prep: 09/21/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Nitrogen, Ammonia (as N)	<0.1000	2.500	2.233	89	2.323	93	85-115	4	20	mg/L	

Analytical Method: SM 5220D -2011

Seq Number: 178050

Matrix: Water

Prep Method: SM5220D_Prep

MB Sample Id: 178050-1-BLK

LCS Sample Id: 178050-1-BKS

Date Prep: 09/21/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Chemical Oxygen Demand	<5.000	100.5	106	105	85-115	mg/L	

Analytical Method: SM 5220D -2011

Seq Number: 178050

Matrix: Ground Water

Prep Method: SM5220D_Prep

Parent Sample Id: 20091705-001

MS Sample Id: 20091705-001 S

Date Prep: 09/21/20

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Chemical Oxygen Demand	<5.000	50.25	68.00	135	57.00	113	80-120	18	20	mg/L	X

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Project Name Cross Trails

PSS Project No.: 20091705

Analytical Method: EPA 300.0

Seq Number: 177958

Matrix: Water

Prep Method: E300.0P

MB Sample Id: 83115-1-BLK

LCS Sample Id: 83115-1-BKS

Date Prep: 09/17/20

Parameter**MB
Result****Spike
Amount****LCS
Result****LCS
%Rec****Limits****Units****Flag**

Chloride

<0.5000

50.00

50.49

101

90-110

mg/L

Nitrate

<0.04400

5.000

4.799

96

90-110

mg/L

Sulfate

<1.600

50.00

48.44

97

90-110

mg/L

Analytical Method: EPA 300.0

Seq Number: 177997

Matrix: Water

Prep Method: E300.0P

MB Sample Id: 83142-1-BLK

LCS Sample Id: 83142-1-BKS

Date Prep: 09/18/20

Parameter**MB
Result****Spike
Amount****LCS
Result****LCS
%Rec****Limits****Units****Flag**

Sulfate

<1.600

50.00

47.81

96

90-110

mg/L

Analytical Method: EPA 300.0

Seq Number: 177958

Matrix: Ground Water

Prep Method: E300.0P

Parent Sample Id: 20091705-001

MS Sample Id: 20091705-001 S

Date Prep: 09/17/20

MSD Sample Id: 20091705-001 SD

Parameter**Parent
Result****Spike
Amount****MS
Result****MS
%Rec****MSD
Result****MSD
%Rec****Limits****%RPD****RPD
Limit****Units****Flag**

Chloride

2.837

50.00

56.50

107

55.94

106

86-117

1

20

mg/L

Nitrate

<0.04400

5.000

5.128

103

5.084

102

88-113

1

20

mg/L

Sulfate

5.152

50.00

57.04

104

56.46

103

80-118

1

20

mg/L

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Project Name Cross Trails

PSS Project No.: 20091705

Analytical Method: SW-846 6020 A

Seq Number: 178179

Matrix: Water

Prep Method: SW3010A

MB Sample Id: 83198-1-BLK

LCS Sample Id: 83198-1-BKS

Date Prep: 09/23/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Antimony	<0.002000	0.04000	0.03778	94	80-120	mg/L	
Arsenic	<0.002000	0.04000	0.03784	95	80-120	mg/L	
Barium	<0.01000	0.04000	0.03730	93	80-120	mg/L	
Beryllium	<0.002000	0.04000	0.03227	81	80-120	mg/L	
Cadmium	<0.004000	0.04000	0.03555	89	80-120	mg/L	
Calcium	<0.1000	0.4000	0.3931	98	80-120	mg/L	
Chromium	<0.01000	0.04000	0.04090	102	80-120	mg/L	
Cobalt	<0.01000	0.04000	0.03824	96	80-120	mg/L	
Copper	<0.01000	0.04000	0.04061	102	80-120	mg/L	
Iron	<0.1000	0.4000	0.3863	97	80-120	mg/L	
Lead	<0.002000	0.04000	0.03814	95	80-120	mg/L	
Magnesium	<0.1000	0.4000	0.4069	102	80-120	mg/L	
Manganese	<0.01000	0.04000	0.03910	98	80-120	mg/L	
Mercury	<0.0002	0.001000	0.000991	99	80-120	mg/L	
Nickel	<0.01100	0.04000	0.04014	100	80-120	mg/L	
Potassium	<0.3900	0.4000	0.4004	100	80-120	mg/L	
Selenium	<0.03500	0.04000	0.03528	88	80-120	mg/L	
Silver	<0.01000	0.04000	0.03845	96	80-120	mg/L	
Sodium	<0.2000	0.4000	0.4522	113	80-120	mg/L	
Thallium	<0.002000	0.04000	0.03461	87	80-120	mg/L	
Vanadium	<0.01000	0.04000	0.04071	102	80-120	mg/L	
Zinc	<0.01000	0.2000	0.1919	96	80-120	mg/L	

Analytical Method: SW-846 6020 A

Seq Number: 178179

Matrix: Water

Prep Method: SW3010A

MB Sample Id: 83198-1-BLK

Date Prep: 09/23/20

Parameter	MB Result	LOD	RL	Units	Flag
Hardness (Ca & Mg)	ND	0.5000	0.7000	mg/L	

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Project Name Cross Trails

PSS Project No.: 20091705

Analytical Method: SW-846 6020 A

Seq Number: 178179

Matrix: Ground Water

Prep Method: SW3010A

Parent Sample Id: 20091705-001

MS Sample Id: 20091705-001 S

Date Prep: 09/23/20

MSD Sample Id: 20091705-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Antimony	<0.002000	0.04000	0.04028	101	0.03983	100	75-125	1	25	mg/L	
Arsenic	<0.002000	0.04000	0.03999	100	0.03922	98	75-125	2	25	mg/L	
Barium	0.01438	0.04000	0.05616	104	0.05450	100	75-125	4	25	mg/L	
Beryllium	<0.002000	0.04000	0.03391	85	0.03494	87	75-125	2	25	mg/L	
Cadmium	<0.004000	0.04000	0.03818	95	0.03807	95	75-125	0	25	mg/L	
Calcium	47.84	0.4000	50.02	545	49.61	443	75-125	21	25	mg/L	X
Chromium	<0.01000	0.04000	0.04094	102	0.04065	102	75-125	0	25	mg/L	
Cobalt	<0.01000	0.04000	0.03926	98	0.03808	95	75-125	3	25	mg/L	
Copper	<0.01000	0.04000	0.04102	103	0.04115	103	75-125	0	25	mg/L	
Iron	0.8617	0.4000	1.281	105	1.279	104	75-125	1	25	mg/L	
Lead	<0.002000	0.04000	0.03803	95	0.03834	96	75-125	1	25	mg/L	
Magnesium	2.890	0.4000	3.345	114	3.372	121	75-125	6	25	mg/L	
Manganese	0.06248	0.04000	0.1063	110	0.1046	105	75-125	5	25	mg/L	
Mercury	<0.0002	0.001000	0.000919	92	0.000952	95	75-125	3	25	mg/L	
Nickel	<0.01100	0.04000	0.03812	95	0.03723	93	75-125	2	25	mg/L	
Potassium	2.170	0.4000	2.632	116	2.606	109	75-125	6	25	mg/L	
Selenium	<0.03500	0.04000	0.03557	89	0.03589	90	75-125	1	25	mg/L	
Silver	<0.01000	0.04000	0.03953	99	0.03901	98	75-125	1	25	mg/L	
Sodium	3.643	0.4000	4.406	191	4.332	172	75-125	10	25	mg/L	X
Thallium	<0.002000	0.04000	0.03559	89	0.03385	85	75-125	5	25	mg/L	
Vanadium	<0.01000	0.04000	0.03905	98	0.03833	96	75-125	2	25	mg/L	
Zinc	<0.01000	0.2000	0.2076	104	0.2072	104	75-125	0	25	mg/L	

Analytical Method: SW-846 6020 A

Seq Number: 178283

Matrix: Water

REBLK Sample Id: 83198-1-BLK

LCS Sample Id: 83198-1-BKS

Parameter	REBLK Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Calcium	<0.1000	0.4000	0.4566	114	80-120	mg/L	
Iron	<0.1000	0.4000	0.4484	112	80-120	mg/L	
Magnesium	<0.1000	0.4000	0.4372	109	80-120	mg/L	
Potassium	<0.3900	0.4000	0.4302	108	80-120	mg/L	
Sodium	<0.2000	0.4000	0.4361	109	80-120	mg/L	

Project Name Cross Trails

PSS Project No.: 20091705

Analytical Method: SW-846 8260 B

Seq Number: 178073

Matrix: Water

Prep Method: SW5030B

MB Sample Id: 83190-1-BLK

LCS Sample Id: 83190-1-BKS

Date Prep: 09/22/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Chloromethane	<0.5000	50.00	44.73	89	48-132	ug/L	
Vinyl Chloride	<0.5000	50.00	46.05	92	75-113	ug/L	
Bromomethane	<0.5000	50.00	43.99	88	50-143	ug/L	
Chloroethane	<0.5000	50.00	47.76	96	58-115	ug/L	
Acetone	<5.000	50.00	58.93	118	26-128	ug/L	
Trichlorofluoromethane	<1.000	50.00	46.48	93	71-123	ug/L	
1,1-Dichloroethene	<0.5000	50.00	52.47	105	71-124	ug/L	
Methylene Chloride	<0.5000	50.00	51.85	104	70-117	ug/L	
trans-1,2-dichloroethene	<0.5000	50.00	53.07	106	74-118	ug/L	
Methyl-t-butyl ether	<0.5000	50.00	54.11	108	70-127	ug/L	
1,1-Dichloroethane	<0.5000	50.00	53.35	107	70-121	ug/L	
Vinyl Acetate	<0.5000	50.00	53.94	108	62-124	ug/L	
2-Butanone	<5.000	50.00	55.97	112	51-113	ug/L	
cis-1,2-Dichloroethene	<0.5000	50.00	51.97	104	76-116	ug/L	
Bromochloromethane	<0.5000	50.00	54.60	109	91-115	ug/L	
Chloroform	<0.5000	50.00	50.11	100	81-113	ug/L	
1,1,1-Trichloroethane	<0.5000	50.00	51.28	103	84-122	ug/L	
1,2-Dichloroethane	<0.5000	50.00	49.87	100	78-118	ug/L	
Carbon Tetrachloride	<0.5000	50.00	52.88	106	85-125	ug/L	
Benzene	<0.5000	50.00	51.04	102	82-115	ug/L	
Dibromomethane	<0.5000	50.00	51.93	104	84-116	ug/L	
1,2-Dichloropropane	<0.5000	50.00	50.09	100	79-121	ug/L	
Acrylonitrile	<5.000	50.00	52.40	105	63-121	ug/L	
Trichloroethene	<0.5000	50.00	51.46	103	82-117	ug/L	
Carbon Disulfide	<1.000	50.00	50.77	102	71-132	ug/L	
Bromodichloromethane	<0.5000	50.00	53.21	106	88-122	ug/L	
cis-1,3-Dichloropropene	<0.5000	50.00	50.84	102	83-123	ug/L	
4-Methyl-2-Pentanone	<2.500	50.00	47.26	95	63-112	ug/L	
trans-1,3-dichloropropene	<0.5000	50.00	51.57	103	82-125	ug/L	
1,1,2-Trichloroethane	<0.5000	50.00	53.22	106	82-115	ug/L	
Toluene	<0.5000	50.00	51.61	103	85-112	ug/L	
2-Hexanone	<2.500	50.00	51.59	103	51-126	ug/L	
1,2-Dibromoethane	<0.5000	50.00	52.18	104	82-122	ug/L	
Dibromochloromethane	<0.5000	50.00	51.06	102	84-120	ug/L	
1,1,1,2-Tetrachloroethane	<0.5000	50.00	53.59	107	85-127	ug/L	
Bromoform	<2.500	50.00	52.22	104	79-122	ug/L	
trans-1,4-dichloro-2-butene	<0.5000	50.00	48.59	97	47-149	ug/L	
Tetrachloroethylene	<0.5000	50.00	54.29	109	83-113	ug/L	
Chlorobenzene	<0.5000	50.00	51.10	102	80-116	ug/L	
Ethylbenzene	<0.5000	50.00	51.97	104	85-120	ug/L	
m,p-Xylenes	<1.000	100	105.7	106	87-120	ug/L	
Styrene	<0.5000	50.00	51.26	103	78-121	ug/L	
1,1,2,2-Tetrachloroethane	<0.5000	50.00	49.23	98	70-118	ug/L	
o-Xylene	<0.5000	50.00	53.12	106	87-122	ug/L	
1,2,3-Trichloropropane	<0.5000	50.00	50.87	102	71-120	ug/L	
1,4-Dichlorobenzene	<0.5000	50.00	51.34	103	79-119	ug/L	
1,2-Dichlorobenzene	<0.5000	50.00	52.51	105	79-122	ug/L	
1,2-Dibromo-3-Chloropropane	<1.000	50.00	48.21	96	63-122	ug/L	
Iodomethane (Methyl Iodide)	<1.000	50.00	53.99	108	25-170	ug/L	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

6630 Baltimore National Pike

Baltimore, MD 21228

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Project Name Cross Trails

PSS Project No.: 20091705

Analytical Method: SW-846 8260 B

Seq Number: 178073

Matrix: Water

Prep Method: SW5030B

MB Sample Id: 83190-1-BLK

LCS Sample Id: 83190-1-BKS

Date Prep: 09/22/20

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units
4-Bromofluorobenzene	94		94		88-112	%
Dibromofluoromethane	103		100		93-111	%
Toluene-D8	104		100		94-107	%

Project Name Cross Trails

PSS Project No.: 20091705

Analytical Method: SW-846 8260 B

Seq Number: 178122

Matrix: Water

Prep Method: SW5030B

MB Sample Id: 83202-1-BLK

LCS Sample Id: 83202-1-BKS

Date Prep: 09/23/20

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Chloromethane	<0.5000	50.00	44.76	90	48-132	ug/L	
Vinyl Chloride	<0.5000	50.00	43.53	87	75-113	ug/L	
Bromomethane	<0.5000	50.00	44.23	88	50-143	ug/L	
Chloroethane	<0.5000	50.00	41.96	84	58-115	ug/L	
Acetone	<5.000	50.00	50.72	101	26-128	ug/L	
Trichlorofluoromethane	<1.000	50.00	41.21	82	71-123	ug/L	
1,1-Dichloroethene	<0.5000	50.00	43.49	87	71-124	ug/L	
Methylene Chloride	<0.5000	50.00	43.96	88	70-117	ug/L	
trans-1,2-dichloroethene	<0.5000	50.00	50.09	100	74-118	ug/L	
Methyl-t-butyl ether	<0.5000	50.00	49.76	100	70-127	ug/L	
1,1-Dichloroethane	<0.5000	50.00	49.29	99	70-121	ug/L	
Vinyl Acetate	<0.5000	50.00	49.27	99	62-124	ug/L	
2-Butanone	<5.000	50.00	51.84	104	51-113	ug/L	
cis-1,2-Dichloroethene	<0.5000	50.00	49.28	99	76-116	ug/L	
Bromochloromethane	<0.5000	50.00	51.91	104	91-115	ug/L	
Chloroform	<0.5000	50.00	47.66	95	81-113	ug/L	
1,1,1-Trichloroethane	<0.5000	50.00	47.94	96	84-122	ug/L	
1,2-Dichloroethane	<0.5000	50.00	47.48	95	78-118	ug/L	
Carbon Tetrachloride	<0.5000	50.00	48.65	97	85-125	ug/L	
Benzene	<0.5000	50.00	48.05	96	82-115	ug/L	
Dibromomethane	<0.5000	50.00	50.18	100	84-116	ug/L	
1,2-Dichloropropane	<0.5000	50.00	47.62	95	79-121	ug/L	
Acrylonitrile	<5.000	50.00	42.83	86	63-121	ug/L	
Trichloroethene	<0.5000	50.00	49.01	98	82-117	ug/L	
Carbon Disulfide	<1.000	50.00	41.67	83	71-132	ug/L	
Bromodichloromethane	<0.5000	50.00	51.27	103	88-122	ug/L	
cis-1,3-Dichloropropene	<0.5000	50.00	48.82	98	83-123	ug/L	
4-Methyl-2-Pentanone	<2.500	50.00	44.35	89	63-112	ug/L	
trans-1,3-dichloropropene	<0.5000	50.00	49.15	98	82-125	ug/L	
1,1,2-Trichloroethane	<0.5000	50.00	50.92	102	82-115	ug/L	
Toluene	<0.5000	50.00	48.86	98	85-112	ug/L	
2-Hexanone	<2.500	50.00	48.08	96	51-126	ug/L	
1,2-Dibromoethane	<0.5000	50.00	50.58	101	82-122	ug/L	
Dibromochloromethane	<0.5000	50.00	49.27	99	84-120	ug/L	
1,1,1,2-Tetrachloroethane	<0.5000	50.00	52.29	105	85-127	ug/L	
Bromoform	<2.500	50.00	49.84	100	79-122	ug/L	
trans-1,4-dichloro-2-butene	<0.5000	50.00	46.93	94	47-149	ug/L	
Tetrachloroethylene	<0.5000	50.00	51.33	103	83-113	ug/L	
Chlorobenzene	<0.5000	50.00	49.22	98	80-116	ug/L	
Ethylbenzene	<0.5000	50.00	49.76	100	85-120	ug/L	
m,p-Xylenes	<1.000	100	101.1	101	87-120	ug/L	
Styrene	<0.5000	50.00	49.12	98	78-121	ug/L	
1,1,2,2-Tetrachloroethane	<0.5000	50.00	48.92	98	70-118	ug/L	
o-Xylene	<0.5000	50.00	50.91	102	87-122	ug/L	
1,2,3-Trichloropropene	<0.5000	50.00	48.87	98	71-120	ug/L	
1,4-Dichlorobenzene	<0.5000	50.00	50.51	101	79-119	ug/L	
1,2-Dichlorobenzene	<0.5000	50.00	51.84	104	79-122	ug/L	
1,2-Dibromo-3-Chloropropane	<1.000	50.00	45.98	92	63-122	ug/L	
Iodomethane (Methyl Iodide)	<1.000	50.00	51.48	103	25-170	ug/L	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	

PHASE**S**EPARATION**S**CIENCE**QC Summary**

6630 Baltimore National Pike

Baltimore, MD 21228

410-747-8770

800-932-9047

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Project Name Cross Trails

PSS Project No.: 20091705

Analytical Method: SW-846 8260 B

Seq Number: 178122

Matrix: Water

Prep Method: SW5030B

MB Sample Id: 83202-1-BLK

LCS Sample Id: 83202-1-BKS

Date Prep: 09/23/20

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units
4-Bromofluorobenzene	97		95		88-112	%
Dibromofluoromethane	102		100		93-111	%
Toluene-D8	102		102		94-107	%

Project Name Cross Trails

PSS Project No.: 20091705

Analytical Method: SW-846 8260 B

Seq Number: 178122

Matrix: Surface Water

Prep Method: SW5030B

Parent Sample Id: 20091705-008

MS Sample Id: 20091705-008 S

Date Prep: 09/23/20

MSD Sample Id: 20091705-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Chloromethane	<0.5000	50.00	44.72	89	44.46	89	55-134	1	25	ug/L	
Vinyl Chloride	<0.5000	50.00	44.95	90	44.65	89	71-126	1	25	ug/L	
Bromomethane	<0.5000	50.00	46.62	93	45.24	90	38-160	3	25	ug/L	
Chloroethane	<0.5000	50.00	44.48	89	43.39	87	62-120	2	25	ug/L	
Acetone	<5.000	50.00	32.38	65	31.40	63	28-76	3	25	ug/L	
Trichlorofluoromethane	<1.000	50.00	44.59	89	42.88	86	74-127	4	25	ug/L	
1,1-Dichloroethene	<0.5000	50.00	53.04	106	49.67	99	76-130	7	25	ug/L	
Methylene Chloride	<0.5000	50.00	50.59	101	48.85	98	74-121	3	25	ug/L	
trans-1,2-dichloroethene	<0.5000	50.00	52.09	104	50.16	100	75-124	4	25	ug/L	
Methyl-t-butyl ether	<0.5000	50.00	47.83	96	46.87	94	66-129	2	25	ug/L	
1,1-Dichloroethane	<0.5000	50.00	51.37	103	50.91	102	74-127	1	25	ug/L	
Vinyl Acetate	<0.5000	50.00	47.81	96	47.80	96	55-131	0	25	ug/L	
2-Butanone	<5.000	50.00	38.96	78	38.00	76	53-93	2	25	ug/L	
cis-1,2-Dichloroethene	<0.5000	50.00	50.60	101	49.08	98	81-121	3	25	ug/L	
Bromochloromethane	<0.5000	50.00	52.31	105	51.57	103	85-125	1	25	ug/L	
Chloroform	<0.5000	50.00	49.46	99	47.60	95	82-120	4	25	ug/L	
1,1,1-Trichloroethane	<0.5000	50.00	50.26	101	48.67	97	84-129	3	25	ug/L	
1,2-Dichloroethane	<0.5000	50.00	47.71	95	46.42	93	78-121	3	25	ug/L	
Carbon Tetrachloride	<0.5000	50.00	51.98	104	50.25	101	89-130	3	25	ug/L	
Benzene	<0.5000	50.00	50.02	100	48.49	97	83-121	3	25	ug/L	
Dibromomethane	<0.5000	50.00	50.00	100	48.80	98	82-121	2	25	ug/L	
1,2-Dichloropropane	<0.5000	50.00	48.79	98	47.26	95	80-125	3	25	ug/L	
Acrylonitrile	<5.000	50.00	49.38	99	46.84	94	65-123	5	25	ug/L	
Trichloroethene	<0.5000	50.00	50.26	101	48.80	98	81-123	3	25	ug/L	
Carbon Disulfide	<1.000	50.00	49.76	100	47.98	96	75-135	4	25	ug/L	
Bromodichloromethane	<0.5000	50.00	51.27	103	49.49	99	85-129	4	25	ug/L	
cis-1,3-Dichloropropene	<0.5000	50.00	47.76	96	46.73	93	78-126	2	25	ug/L	
4-Methyl-2-Pentanone	<2.500	50.00	42.76	86	40.93	82	61-122	4	25	ug/L	
trans-1,3-dichloropropene	<0.5000	50.00	47.41	95	46.39	93	76-127	2	25	ug/L	
1,1,2-Trichloroethane	<0.5000	50.00	50.87	102	49.24	98	81-118	3	25	ug/L	
Toluene	<0.5000	50.00	51.06	102	49.13	98	72-141	4	25	ug/L	
2-Hexanone	<2.500	50.00	40.15	80	38.70	77	43-123	4	25	ug/L	
1,2-Dibromoethane	<0.5000	50.00	49.96	100	48.14	96	81-122	4	25	ug/L	
Dibromochloromethane	<0.5000	50.00	48.69	97	47.04	94	82-120	3	25	ug/L	
1,1,1,2-Tetrachloroethane	<0.5000	50.00	52.16	104	50.05	100	85-127	4	25	ug/L	
Bromoform	<2.500	50.00	49.08	98	47.23	94	76-122	4	25	ug/L	
trans-1,4-dichloro-2-butene	<0.5000	50.00	46.28	93	44.34	89	40-149	4	25	ug/L	
Tetrachloroethylene	<0.5000	50.00	52.83	106	50.76	102	74-132	4	25	ug/L	
Chlorobenzene	<0.5000	50.00	50.15	100	48.51	97	81-122	3	25	ug/L	
Ethylbenzene	<0.5000	50.00	51.49	103	49.38	99	88-127	4	25	ug/L	
m,p-Xylenes	<1.000	100	104.2	104	99.30	99	88-128	5	25	ug/L	
Styrene	<0.5000	50.00	49.40	99	47.80	96	79-123	3	25	ug/L	
1,1,2,2-Tetrachloroethane	<0.5000	50.00	45.81	92	46.40	93	70-124	1	25	ug/L	
o-Xylene	<0.5000	50.00	51.95	104	49.97	100	89-128	4	25	ug/L	
1,2,3-Trichloropropene	<0.5000	50.00	48.89	98	46.46	93	73-122	5	25	ug/L	
1,4-Dichlorobenzene	<0.5000	50.00	47.23	94	48.86	98	77-122	3	25	ug/L	
1,2-Dichlorobenzene	<0.5000	50.00	48.32	97	50.04	100	77-128	3	25	ug/L	
1,2-Dibromo-3-Chloropropane	<1.000	50.00	42.57	85	43.22	86	56-136	2	25	ug/L	
Iodomethane (Methyl Iodide)	<1.000	50.00	51.24	102	60.16	120	6-169	16	25	ug/L	

Surrogate

MS Result MS Flag MSD Result MSD Flag Limits Units

PHASE**S**EPARATION**S**CIENCE**QC Summary**

6630 Baltimore National Pike
Baltimore, MD 21228
410-747-8770
800-932-9047
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Project Name Cross Trails

PSS Project No.: 20091705

Analytical Method: SW-846 8260 B

Seq Number: 178122

Matrix: Surface Water

Prep Method: SW5030B

Parent Sample Id: 20091705-008

MS Sample Id: 20091705-008 S

Date Prep: 09/23/20

MSD Sample Id: 20091705-008 SD

Surrogate

	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units
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4-Bromofluorobenzene

91

96

88-112

%

Dibromofluoromethane

101

101

93-111

%

Toluene-D8

101

101

94-107

%

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com

email: info@phaseonline.com

1	CLIENT: Arc Environmental	OFFICE LOC. Baltimore	PSS Work Order #: 20091705	PAGE 1 OF _____										
PROJECT MGR: Kyle Begey	PHONE NO.: 410-659-9971	Matrix Codes: SW=Surface Wtr DW=Drinking Wrt GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe												
EMAIL: kbegey@arcenvironmental.com	FAX NO.:	No. C O N T A I N E R S	SAMPLE TYPE C = COMP G = GRAB	Preservative Used										
PROJECT NAME: Cross Trails	PROJECT NO.: 093-7													
SITE LOCATION: Brandywine, MD	P.O. NO.:													
SAMPLERS: Glen Banks	DW CERT NO. :													
2	LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	TCL VOCs	Total Metals	NH3 + COD	Alkalinity	TDS	Inorganic Anions	Turbidity	Analysis/ Method Required	REMARKS
1		MW-4A	09/16/20	1146	GW	9 G	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
2		MW-5	09/16/20	1630	GW	9 G	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
3		MW-6	09/16/20	1455	GW	9 G	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
4		MW-13	09/16/20	0934	GW	9 G	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
5		Stream-3	09/16/20	1330	SW	9 G	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
6		Stream-4	09/16/20	1354	SW	9 G	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
7		Stream-7	09/16/20	1206	SW	9 G	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
8		Stream-8	09/16/20	1710	SW	9 G	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
9		RB	09/16/20	1750		9 G	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓		
10		TB				2	✓							
5	Relinquished By: (1)	Date	Time	Received By:				4	Requested Turnaround Time	# of Coolers:	2			
	<i>Glen Banks</i>	9/17/20	932	<i>claudia</i>				<input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day	<input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other	Custody Seal:	<i>PBS</i>			
Relinquished By: (2)	Date	Time	Received By:							Ice Present:	<i>PRES</i> Temp: 2.8°-2.9°C			
	<i>claudia</i>	9/17/20	1030	<i>JLW</i>							Shipping Carrier:	<i>TIE</i>		
Relinquished By: (3)	Date	Time	Received By:				Special Instructions:							
Relinquished By: (4)	Date	Time	Received By:											

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.

Sample Receipt Checklist

6630 Baltimore National Pike
Baltimore, MD 21228
410-747-8770
800-932-9047
www.phaseonline.com

Project Name: Cross Trails

PSS Project No.: 20091705

Client Name	Brandywine Enterprises, Inc.	Received By	Thomas Wingate
Disposal Date	10/22/2020	Date Received	09/17/2020 10:30:00 AM
		Delivered By	Trans Time Express
		Tracking No	Not Applicable
		Logged In By	Thomas Wingate

Shipping Container(s)

No. of Coolers 2

Custody Seal(s) Intact?	N/A	Ice	Present
Seal(s) Signed / Dated?	N/A	Temp (deg C)	2.9

Documentation

COC agrees with sample labels?	Yes	Sampler Name	<u>Glen Banks</u>
Chain of Custody	Yes	MD DW Cert. No.	<u>N/A</u>

Sample Container

Appropriate for Specified Analysis?	Yes	Custody Seal(s) Intact?	Not Applicable
Intact?	Yes	Seal(s) Signed / Dated	Not Applicable
Labeled and Labels Legible?	Yes		

Holding Time

All Samples Received Within Holding Time(s)? Yes Total No. of Samples Received 11

Total No. of Containers Received 85

Preservation

Total Metals	(pH<2)	Yes
Dissolved Metals, filtered within 15 minutes of collection	(pH<2)	N/A
Orthophosphorus, filtered within 15 minutes of collection		N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, DOC (field filtered), COD, Phenols	(pH<2)	Yes
TOX, TKN, NH3, Total Phos	(pH<2)	Yes
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A
524 VOC (Rcvd with trip blanks)	(pH<2)	N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Preservative not indicated on COC for VOC, metals, NH3, or COD. Received containers preserved with HCl, HNO3, and H2SO4.

Samples Inspected/Checklist Completed By:

Thomas Wingate

Date: 09/17/2020

PM Review and Approval:

Roger Rhudy 61

Date: 09/17/2020

Version 1.001